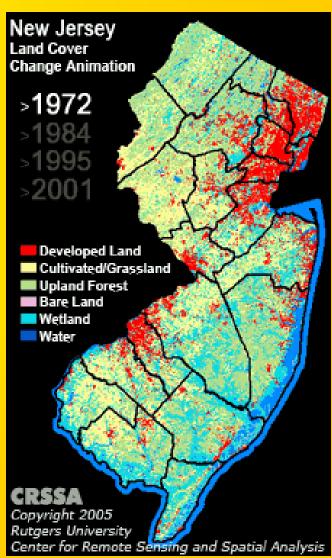
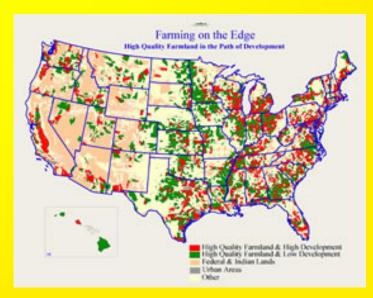
Recent Trends Impacting Farmland Preservation

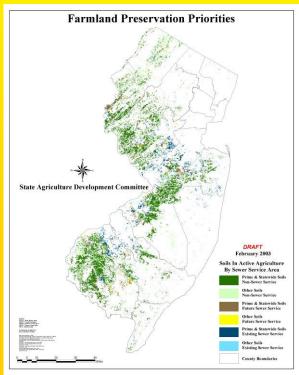
- Population
- Housing
- Employment
- Land Use
- Building Permits
- Regional Planning
- Farmland Availability

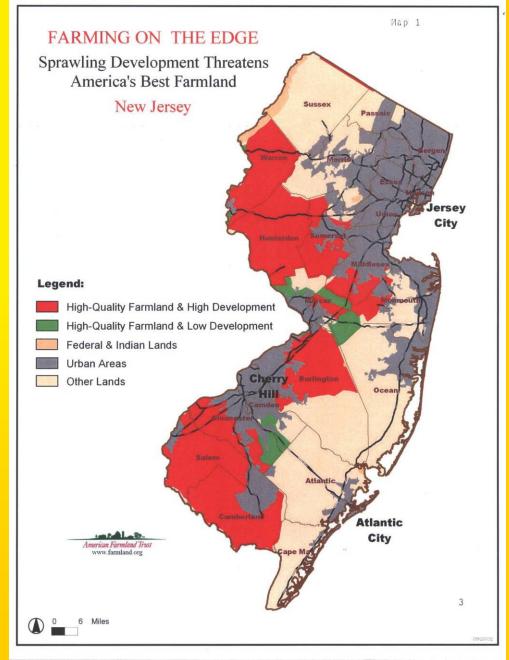
SADC Appraisers Conference Mercer County Community College June 8, 2011

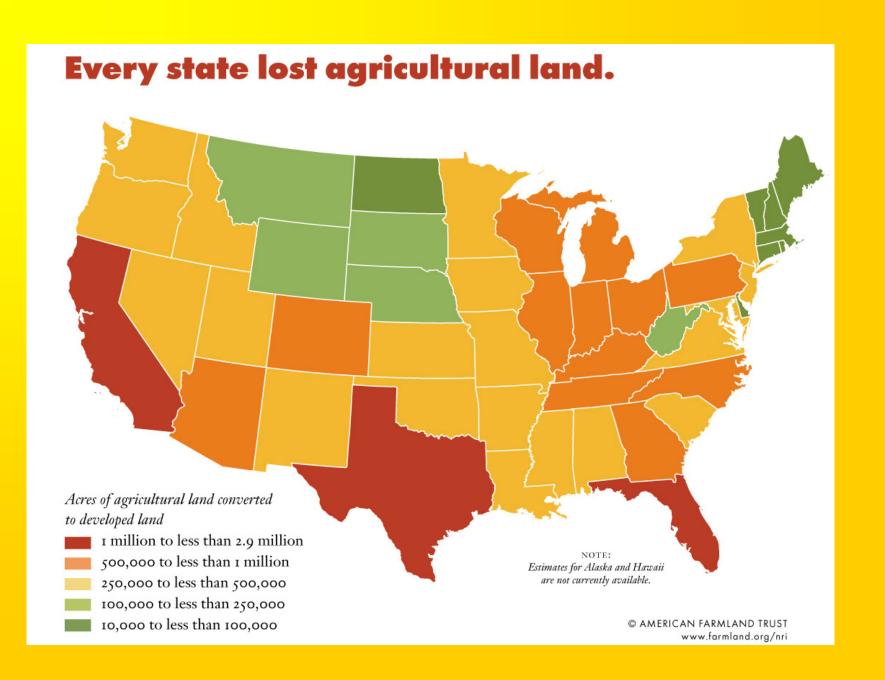
Timothy A. Brill, PP, AICP SADC Planning Manager

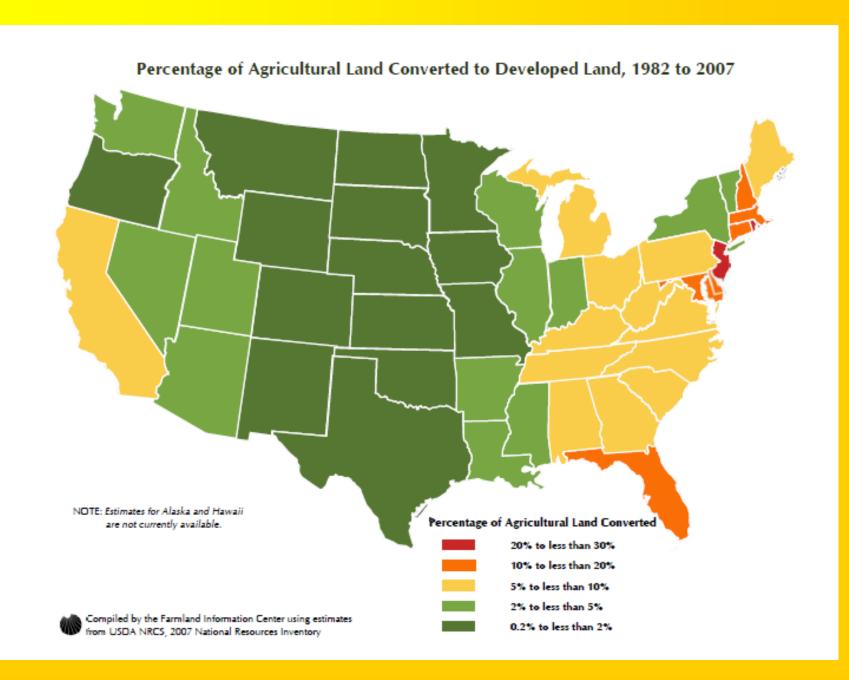




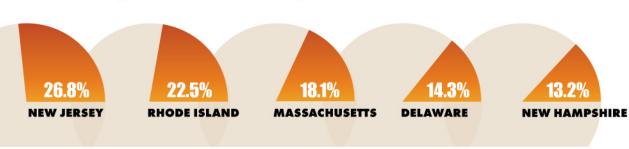












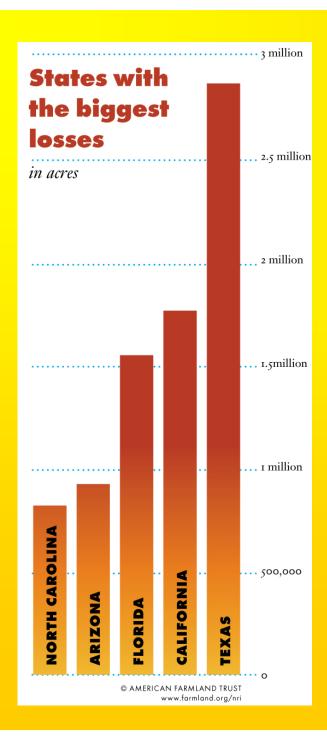
Source: USDA NRCS National Resources Inventory, 1982-2007

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States that preserved the largest percentage of their agricultural base:

Percentage		
<u>Preserved</u>	Acres Preserved	Ag Base
24.9%	182,953	733,450
18.4%	93,935	510,253
16.9%	347,637	2,051,756
12.4%	64,018	517,879
10.6%	130,748	1,233,313
	24.9% 18.4% 16.9% 12.4%	PreservedAcres Preserved24.9%182,95318.4%93,93516.9%347,63712.4%64,018

Sources: American Farmland Trust, Status of State Programs, June 2010 USDA Census of Agriculture, Land in Farms, 2007



BRIGHT SPOTS

These states protected the most agricultural land in comparison to the acreage they converted to development.

ACRES PROTECTED FOR EVERY ACRE DEVELOPED

Vermont 3.04

Maryland 1.42

Delaware 1.06

Connecticut 0.71

Massachusetts 0.70

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... and, also as of 2007:

Colorado 0.61

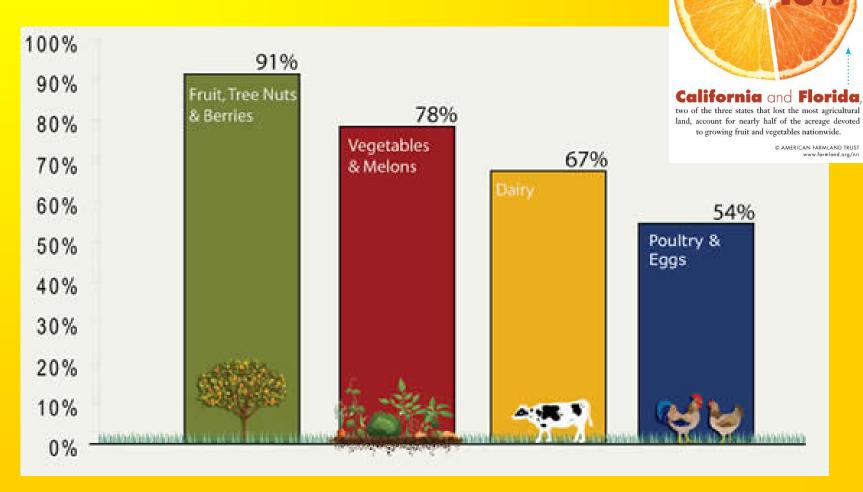
New Jersey 0.58

Pennsylvania 0.55

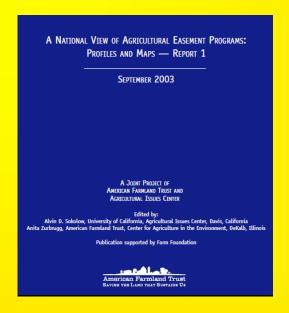


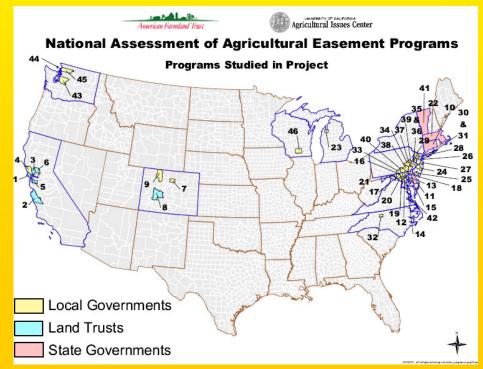
Growing Local

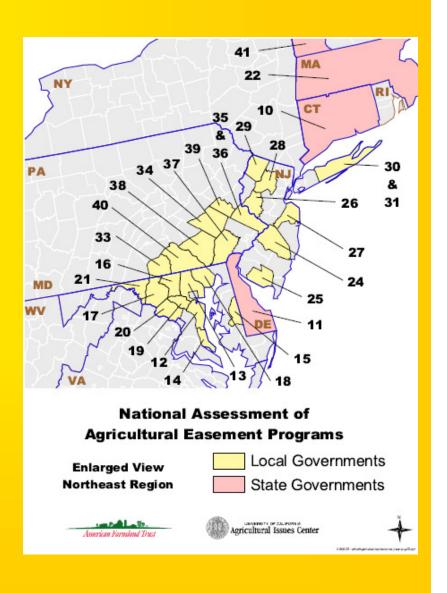
FRESH FOOD GROWN ON THE URBAN FRINGE



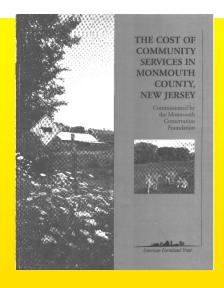
^{*}Market value of agricultural products by county supplied by USDA National Agricultural Statistics Service from the 2007 Census of Agriculture. "Urban influenced counties" are those assigned a 2003 Urban Influence Code of 1, 2, 3, 4 or 5 by the USDA Economic Research Service.

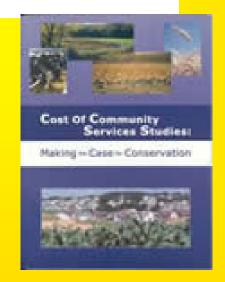












Pacidontial

\$0.29

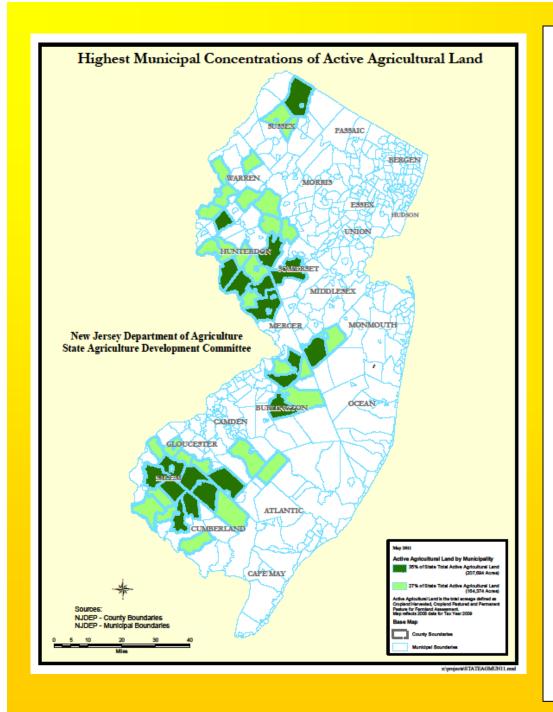
Median COCS Results

Commercial Working & Residential & Industrial Open Land

Median cost per dollar of revenue raised to provide public services to different land uses.

SUMMARY OF COST OF COMMUNITY SERVICES STUDIES, REVENUE-TO-EXPENDITURE RATIOS IN DOLLARS

including farm houses	Commercial & Industrial	Working & Open Land	Source
1 : 1.51	1:0.17	1:0.33	AFT 1998
1 : 1.38	1:0.21	1:0.66	AFT 1998
1:1.14	1:0.34	1:0.36	AFT 1998
1 : 1.18	1:0.20	1:0.35	AFT 1998
1 : 1.28	1:0.30	1:0.54	AFT 1998
	including farm houses 1:1.51 1:1.38 1:1.14 1:1.18	including farm houses Commercial & Industrial 1:1.51 1:0.17 1:1.38 1:0.21 1:1.14 1:0.34 1:1.18 1:0.20	including farm houses Commercial & Industrial Working & Open Land 1:1.51 1:0.17 1:0.33 1:1.38 1:0.21 1:0.66 1:1.14 1:0.34 1:0.36 1:1.18 1:0.20 1:0.35



2008/2009 Farmland Assessment Active Agricultural Acreage

 Cropland Harvested 	473,875
 Cropland Pastured 	36,210
 Permanent Pasture 	89,192

Active Ag Subtotal 599,277

State Total for Ag Use 992,405

Top 20 Municipalities

Active Ag Subtotal	207,694
% of State Active Ag Total	35%

Next 30 Municipalities

Active Ag Subtotal	164,374
% of State Active Ag Total	27%

Top 50 Municipalities

Active Ag Subtotal	372,068
% of State Active Ag Total	62%

Population

1990 - 2010 Census Data

New Jersey

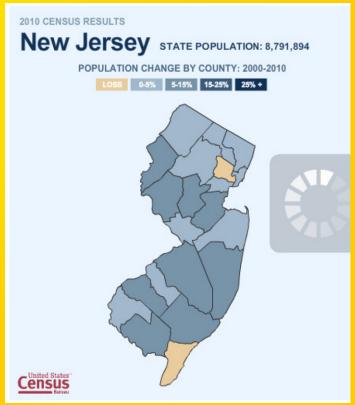
- Total Population Growth from 1990 to 2010 was 1,061,706 or 13.7%
- NJ Population Increased 377,544 or 4.5% from 2000 to 2010
- 2000 2010 Rate of Growth was Half of 1990 2000 Rate of 8.9%
- NJ Population Percentage Change was Significantly Lower than the National Rate of Change for both the 2000 – 2010 Time Frame (9.7%) and the 1990 – 2000 Time Frame (13.2%)

Top NJ Counties % Change 1990-2010

Somerset County	+	34.6%
Ocean County	+	33.1%
Gloucester County	+	25.3%
Atlantic County	+	22.4%
Middlesex County	+	20.6%

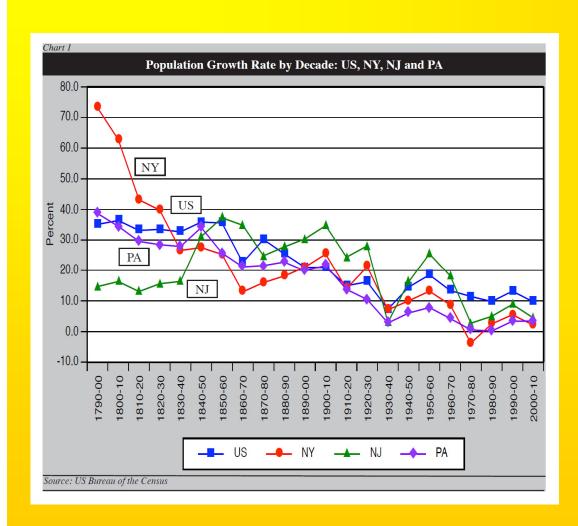
Top NJ Municipalities

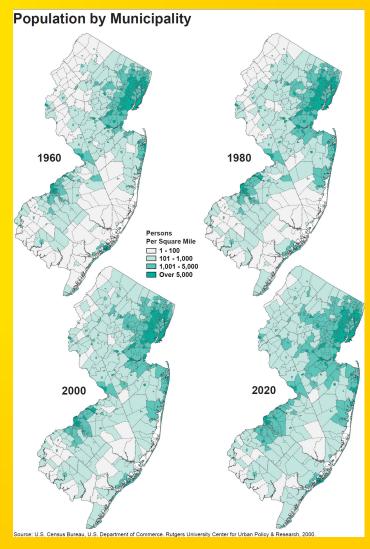
Woolwich Township	+ 599.1%
 Teterboro Borough 	+ 204.5%
 Greenwich Township (Warren) 	+ 200.8%
 Harrison Township 	+ 163.4%
Robbinsville Township	+ 134.6%



Population

1790 - 2010 Census Data

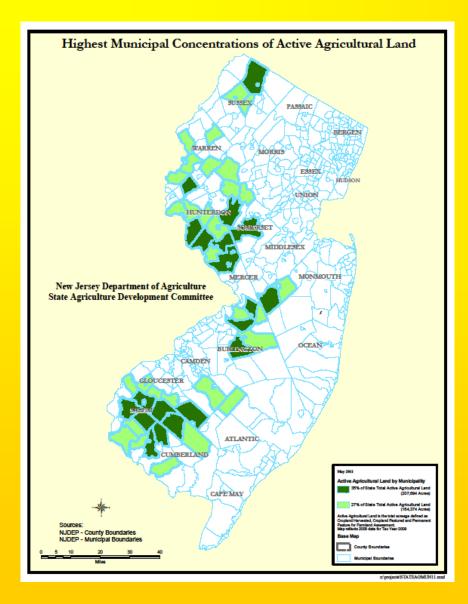




Population for the Counties in New Jersey 1990, 2000 and 2010, Ranked by Percentage Change 1990-2010

		Population Change							
		Population		1990 to	1990 to 2000 2000 to				
Geographic area	2010	2000	1990	Number	Percent	Number	Percent	Number	Percen
NEW JERSEY	8,791,894	8,414,350	7,730,188	684,162	8.9%	377,544	4.5%	1,061,708	13.79
COUNTY									
Somerset County	323,444	297,490	240,279	57,211	23.8%	25,954	8.7%	83,165	34.69
Ocean County	576,567	510,916	433,203	77,713	17.9%	65,651	12.8%	143,364	33.19
Gloucester County	288,288	254,673	230,082	24,591	10.7%	33,615	13.2%	58,206	25.39
Atlantic County	274,549	252,552	224,327	28,225	12.6%	21,997	8.7%	50,222	22.49
Middlesex County	809,858	750,162	671,780	78,382	11.7%	59,696	8.0%	138,078	20.69
Hunterdon County	128,349	121,989	107,776	14,213	13.2%	6,360	5.2%	20,573	19.19
Warren County	108,692	102,437	91,607	10,830	11.8%	6,255	6.1%	17,085	18.79
Morris County	492,276	470,212	421,353	48,859	11.6%	22,064	4.7%	70,923	16.89
Hudson County	634,266	608,975	553,099	55,876	10.1%	25,291	4.2%	81,167	14.79
Sussex County	149,265	144,166	130,943	13,223	10.1%	5,099	3.5%	18,322	14.09
Monmouth County	630,380	615,301	553,124	62,177	11.2%	15,079	2.5%	77,256	14.09
Cumberland County	156,898	146,438	138,053	8,385	6.1%	10,460	7.1%	18,845	13.79
Burlington County	448,734	423,394	395,066	28,328	7.2%	25,340	6.0%	53,668	13.69
Mercer County	366,513	350,761	325,824	24,937	7.7%	15,752	4.5%	40,689	12.59
Passaic County	501,226	489,049	453,060	35,989	7.9%	12,177	2.5%	48,166	10.69
Bergen County	905,116	884,118	825,380	58,738	7.1%	20,998	2.4%	79,736	9.79
Union County	536,499	522,541	493,819	28,722	5.8%	13,958	2.7%	42,680	8.69
Cape May County	97,265	102,326	95,089	7,237	7.6%	-5,061	-4.9%	2,176	2.39
Camden County	513,657	508,932	502,824	6,108	1.2%	4,725	0.9%	10,833	2.29
Salem County	66,083	64,285	65,294	-1,009	-1.5%	1,798	2.8%	789	1.29
Essex County	783,969	793,633	778,206	15,427	2.0%	-9,664	-1.2%	5,763	0.79

Population



Top Active Agriculture Municipalities

% Change 1990-2010

Top 20 Municipalities

 Upper Freehold Township 	+	110.6%
 Chesterfield Township 	+	49.4%
 Hopewell Township (Mercer) 	+	49.3%
 Hillsborough Township 	+	33.0%
 Franklin Township (Warren) 	+	32.1%

Next 30 Municipalities

 Woolwich Township 	+ 599.1%
 Mansfield Township (Burlington) 	on) + 120.5%
 Millstone Township 	+ 108.4%
 West Amwell Township 	+ 108.4%
 South Harrison Township 	+ 64.8%

Housing



	Annual Estimates of Housing Units for Counties in New Jersey: April 1, 2000 to July 1, 2009													
County	Geographic Area					Housing Un	it Estimates					April 1, 20	April 1, 2000	
FIPS	Geographic Area	July 1, 2009	July 1, 2008	July 1, 2007	July 1, 2006	July 1, 2005	July 1, 2004	July 1, 2003	July 1, 2002	July 1, 2001	July 1, 2000	Estimates Base	Census	
000	New Jersey	3,526,453	3,516,171	3,500,009	3,473,786	3,444,384	3,415,695	3,390,104	3,366,742	3,344,561	3,317,394	3,310,287	3,310,275	
001	Atlantic County	127,768	127,240	126,381	124,796	123,061	121,218	119,165	117,358	115,864	114,444	114,089	114,090	
003	Bergen County	351,463	350,976	349,561	348,274	346,147	344,911	344,311	343,339	342,348	340,328	339,823	339,820	
005	Burlington County	176,023	175,386	174,688	172,323	171,148	169,911	168,388	166,320	164,408	161,933	161,313	161,311	
007	Camden County	206,985	206,515	205,793	204,994	203,638	202,580	201,015	200,201	199,774	199,317	199,204	199,679	
009	Cape May County	102,614	102,324	101,905	100,576	98,386	96,433	94,917	93,655	92,403	91,318	91,047	91,047	
011	Cumberland County	56,095	55,908	55,382	54,786	54,273	53,802	53,517	53,277	53,084	52,908	52,864	52,863	
013	Essex County	312,821	312,287	311,276	308,878	306,577	305,013	303,554	302,728	301,935	301,199	301,015	301,011	
015	Gloucester County	107,916	107,344	106,652	105,761	103,843	101,972	100,251	98,576	97,053	95,834	95,530	95,054	
017	Hudson County	259,674	257,178	254,851	251,383	247,629	244,489	242,994	242,067	241,542	240,803	240,618	240,618	
019	Hunterdon County	49,056	48,958	48,752	48,499	48,083	47,524	46,804	46,290	45,693	45,164	45,032	45,032	
021	Mercer County	141,162	140,837	140,445	139,912	138,932	137,598	136,704	135,577	134,516	133,527	133,280	133,280	
023	Middlesex County	288,978	288,495	287,470	285,513	282,886	280,779	278,984	277,480	276,078	274,127	273,639	273,637	
025	Monmouth County	257,734	256,733	255,211	253,122	251,422	249,117	247,349	245,336	243,056	240,874	240,884	240,884	
027	Morris County	185,544	185,189	184,553	183,414	182,263	181,189	179,992	178,438	177,207	174,894	174,379	174,379	
029	Ocean County	275,755	274,692	273,043	271,420	268,965	265,563	261,967	258,812	255,281	250,025	248,711	248,711	
031	Passaic County	172,396	172,372	172,050	171,635	171,402	171,048	170,629	170,346	170,118	170,061	170,047	170,048	
033	Salem County	27,766	27,640	27,560	27,334	27,096	26,818	26,565	26,439	26,300	26,186	26,158	26,158	
035	Somerset County	122,401	122,124	121,403	120,028	119,282	118,303	117,246	116,298	115,142	113,396	112,024	112,023	
037	Sussex County	60,878	60,764	60,546	60,087	59,544	59,042	58,563	57,993	57,293	56,680	56,527	56,528	
039	Union County	197,781	197,602	197,015	195,974	195,195	194,296	193,590	193,389	193,313	193,019	192,945	192,945	
041	Warren County	45,643	45,607	45,472	45,077	44,612	44,089	43,599	42,823	42,153	41,357	41,158	41,157	

Note: The April 1, 2000 Housing Unit Estimates Base reflects changes to the Census 2000 housing units from the Count Question Resolution program and geographic program revisions.

Source: Population Division, U.S. Census Bureau

Release Date: September 9, 2010

Housing



Photo: J.

GCT-PH1: Population Housing Units and Density: 2010

Data Set: Census 2010 Redistricting File Geographic Area: New Jersey -- State and County

								Density pe	r square	
					Area	in square i	niles	mile of lar	nd area	
_		Housing				Water			Housing	Vacancy
Geographic area	Population	units	Occupied	Vacant	Total area	area	Land area	Population	units	Rate
New Jersey	8,791,894	3,553,562	3,214,360	339,202	8,722.58	1,368.36	7,354.22	1,195.49	483.20	9.55%
COUNTY										
Atlantic County	274,549	126,647	102,847	23,800	671.83	116.12	555.70	494.06	227.90	18.79%
Bergen County	905,116	352,388	335,730	16,658	246.67	13.66	233.01	3,884.47	1,512.34	4.73%
Burlington County	448,734	175,615	166,318	9,297	819.84	21.26	798.58	561.92	219.91	5.29%
Camden County	513,657	204,943	190,980	13,963	227.29	6.03	221.26	2,321.48	926.24	6.81%
Cape May County	97,265	98,309	40,812	57,497	620.42	368.99	251.42		391.01	58.49%
Cumberland County	156,898	55,834	51,931	3,903	677.62	193.92	483.70	324.37	115.43	6.99%
Essex County	783,969	312,954	283,712	29,242	129.63	3.42	126.21	6,211.51	2,479.58	9.34%
Gloucester County	288,288	109,796	104,271	5,525	337.18	15.17	322.01	895.29	340.98	5.03%
Hudson County	634,266	270,335	246,437	23,898	62.31	16.12	46.19	13,731.37	5,852.55	8.84%
Hunterdon County	128,349	49,487	47,169	2,318	437.44	9.62	427.82	300.01	115.67	4.68%
Mercer County	366,513	143,169	133,155	10,014	228.89	4.33	224.56	1,632.16	637.56	6.99%
Middlesex County	809,858	294,800	281,186	13,614	322.83	13.91	308.91	2,621.63	954.31	4.62%
Monmouth County	630,380	258,410	233,983	24,427	665.32	196.53	468.79	1,344.69	551.22	9.45%
Morris County	492,276	189,842	180,534	9,308	481.62	21.45	460.18	1,069.75	412.54	4.90%
Ocean County	576,567	278,052	221,111	56,941	915.40	286.62	628.78	916.96	442.21	20.48%
Passaic County	501,226	175,966	166,785	9,181	197.11	12.51	184.59	2,715.31	953.27	5.22%
Salem County	66,083	27,417	25,290	2,127	372.33	40.43	331.90	199.11	82.61	7.76%
Somerset County	323,444	123,127	117,759	5,368	304.86	3.04	301.81	1,071.67	407.96	4.36%
Sussex County	149,265	62,057	54,752	7,305	535.74	16.73	519.01	287.59	119.57	11.77%
Union County	536,499	199,489	188,118	11,371	105.40	2.55	102.85	5,216.07	1,939.52	5.70%
Warren County	108,692	44,925	41,480	3,445	362.86	5.94	356.92	304.53	125.87	7.67%

Note: Vacancy Rate for Monmouth, Ocean, Atlantic, Cape May and Sussex Counties will be higher due to seasonal housing.

Source: U.S. Census Bureau, 2010 Census Redistricting Data (Public Law 94-171) Summary File, Table H1.

Prepared by: New Jersey Department of Labor and Workforce Development; New Jersey State Data Center; February, 2011

2010 County Highlights

Most Housing Units Added (2000 – 2010)

• Hudson County + 29,714

• Ocean County + 29,341

Fastest Housing Unit Growth Rate

• Gloucester County + 15.5%

Non-Family Household Growth Rate

• Gloucester County + 20.9%

• Hunterdon County + 18.2%

• Sussex County + 17.3%

Average Household Size

• New Jersey 2.68

Passaic County 2.94

• Hunterdon County 2.62

• Ocean County 2.58

• Cape May County 2.32

Housing Vacancy Rate

• New Jersey 9.5%

• Cape May County 58.5%

• Somerset County 4.4%

Home Ownership Rate

• New Jersey 65.4%

• Sussex County 84.3%

• Hunterdon County 83.9%

• Essex County 45.2%

•Hudson County 32.1%

Building Permits

Dollar amount of construction authorized by building permit type, 2009

Source: New Jersey Department of Community Affairs, 6/7/10

	N	ew	1
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Year	Total	construction	Additions	Alterations
1996	\$7,028,424,990	\$3,725,240,082	\$727,183,361	\$2,576,001,547
1997	8,346,533,114	4,549,229,096	951,959,980	2,845,344,038
1998	9,396,755,517	5,308,193,413	1,011,107,698	3,077,454,406
1999	10,584,167,530	6,077,922,414	1,137,672,723	3,368,572,393
2000	11,387,683,514	6,347,401,478	1,214,855,819	3,825,426,217
2001	12,007,456,630	6,821,250,336	1,579,284,794	3,606,921,500
2002	12,079,942,099	6,303,134,347	1,711,197,266	4,065,610,486
2003	12,148,747,807	6,300,043,004	1,979,797,826	3,868,906,977
2004	14,274,331,850	7,483,785,506	2,245,519,758	4,545,026,586
2005	15,397,507,147	8,177,824,881	2,150,853,504	5,068,828,762
2006	15,675,107,955	7,312,085,977	2,454,929,331	5,908,092,647
2007	15,356,572,820	7,421,039,940	2,147,990,559	5,787,542,321
2008	13,944,534,578	6,677,373,874	1,792,342,614	5,474,818,090
2009	9,517,725,396	3,563,193,177	1,332,897,670	4,621,634,549

Housing units authorized by building permits, 2009

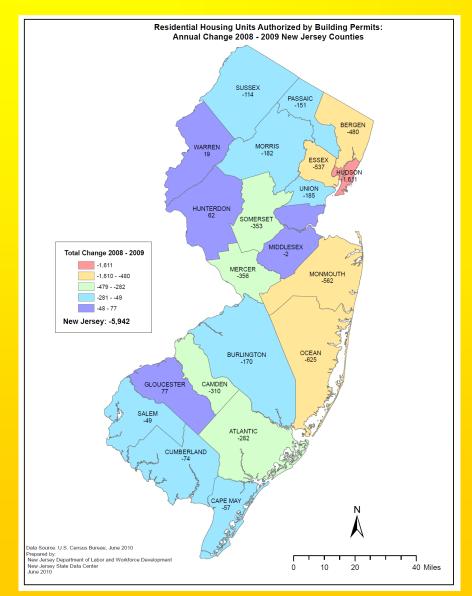
Source: New Jersey Department of Community Affairs, 6/7/10

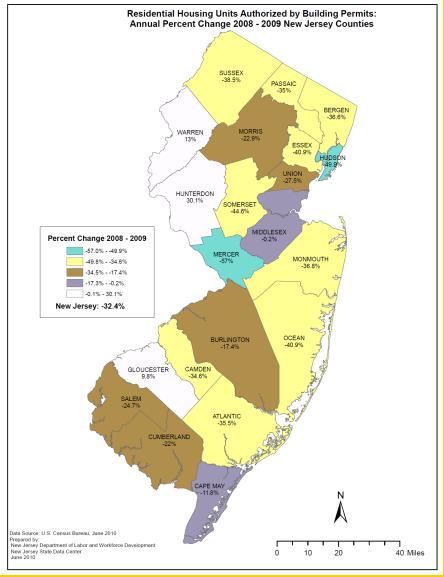
county municipality	Total	1&2 family	Multifamily	Mixed use	rank
Atlantic	500	431	66	3	8
Bergen	544	327	215	2	7
Burlington	661	356	301	4	6
Camden	485	204	281	0	9
Cape May	412	296	115	1	12
Cumberland	242	207	32	3	16
Essex	448	169	279	0	11
Gloucester	740	603	137	0	5
Hudson	1,550	143	1,382	25	1
Hunterdon	226	60	165	1	17
Mercer	336	245	90	1	14
Middlesex	948	654	291	3	3
Monmouth	896	663	229	4	4
Morris	465	216	248	1	10
Ocean	1,387	1,319	65	3	2
Passaic	193	88	105	0	18
Salem	180	44	135	1	19
Somerset	312	310	1	1	15
Sussex	106	99	4	3	21
Union	378	208	168	2	13
Warren	136	134	0	2	20
State buildings	0	0	0	0	
New Jersey	11,145	6,776	4,309	60	

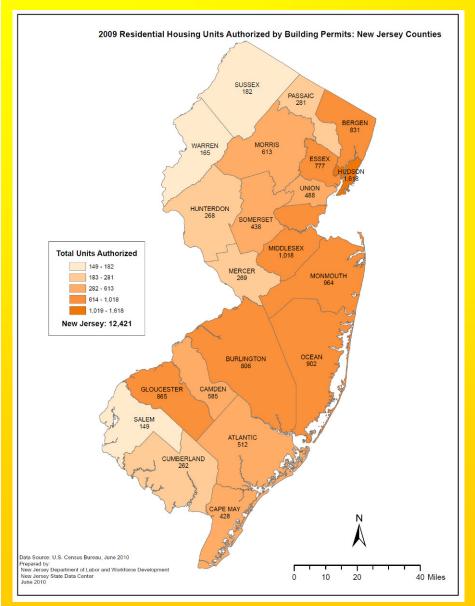
Housing units authorized by building permits for new co	nstruction, 2000
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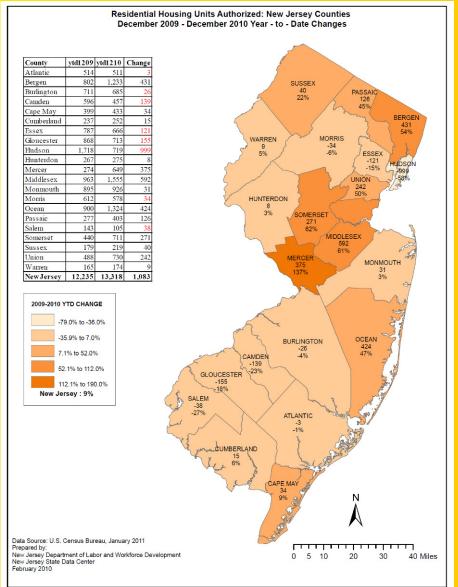
Source: New Jersey Department of Community Affairs

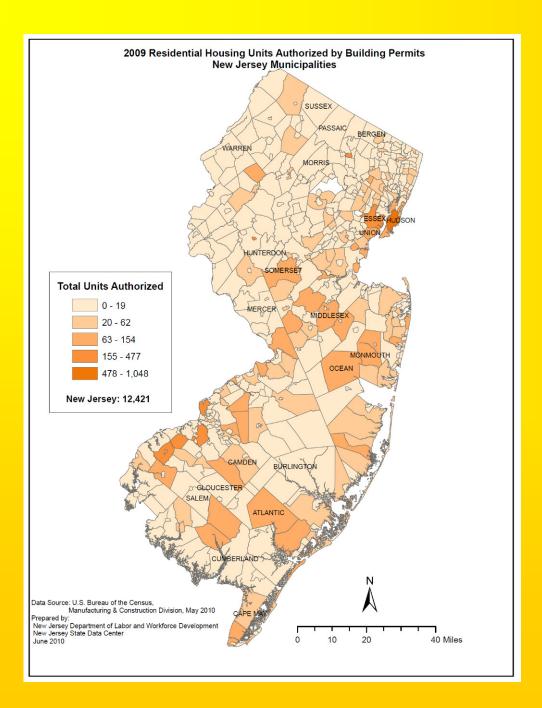
		Authorized	
		housing units (new	
county	AREA NAME	construction only)	
Atlantic		1,658	
Bergen		2,753	
Burlington		3,105	
Camden		884	
Cape May		1,396	
Cumberland		228	
Essex		1,576	
Gloucester		1,501	
Hudson		1,773	
Hunterdon		620	
Mercer		1,413	
Middlesex		2,621	
Monmouth		3,534	
Morris		3,163	
Ocean		5,605	
Passaic		606	
Salem		143	
Somerset		2,074	
Sussex		720	
Union		844	
Warren		908	
State buildings		0	
New Jersey		37,125	

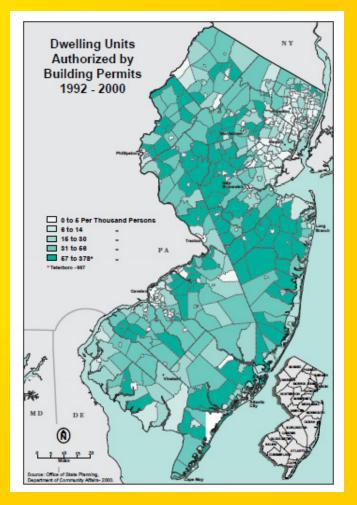












December 2010 Year to Date New Privately Owned Residential Housing Units Authorized to Be Built: New Jersey Counties

			Single-	Two-	3-or-4-	5-or-More
	Total	Total	Family	Family	Family	Family
County	Value	Units	Units	Units	Units	Units
Atlantic County	79,391,226	511	418	16	3	74
Bergen County	297,033,506	1,233	612	124	22	475
Burlington County	94,528,006	685	439	2	3	241
Camden County	46,682,495	457	246	72	4	135
Cape May County	110,091,396	433	283	110	3	37
Cumberland County	28,238,682	252	230	2	3	17
Essex County	106,454,582	666	274	44	22	326
Gloucester County	83,713,243	713	495	6	0	212
Hudson County	101,149,327	719	67	64	60	528
Hunterdon County	35,481,924	275	194	0	0	81
Mercer County	94,474,479	649	176	8	17	448
Middlesex County	163,588,819	1,555	825	10	18	702
Monmouth County	165,269,346	926	583	8	7	328
Morris County	120,439,374	578	408	6	16	148
Ocean County	197,249,721	1,324	860	10	59	395
Passaic County	49,394,420	403	157	30	0	216
Salem County	10,587,947	105	83	2	0	20
Somerset County	99,987,392	711	437	76	35	163
Sussex County	41,850,693	219	212	2	0	5
Union County	67,489,337	730	228	56	7	439
Warren County	23,627,054	174	166	0	0	8
New Jersey	2,016,722,969	13,318	7,393	648	279	4,998

Source: U.S. Bureau of the Census, Manufacturing and Construction Division.

Prepared by: New Jersey Department of Labor and Workforce Development, January 2011.

Square feet of retail space authorized by building permits, 2000

Source: New Jersey Department of Community Affairs

		Square feet of
county	AREA NAME	retail space
Atlantic		453,039
Bergen		173,527
Burlington		480,731
Camden		95,527
Cape May		50,235
Cumberland		45,837
Essex		219,890
Gloucester		273,910
Hudson		239,736
Hunterdon		86,368
Mercer		587,514
Middlesex		561,413
Monmouth		467,781
Morris		371,432
Ocean		297,067
Passaic		278,383
Salem		6,786
Somerset		477,483
Sussex		20,447
Union		597,893
Warren		278,413
State buildings		0
New Jersey		6,063,412

Square feet of office space authorized by building permits, 2000

Source: New Jersey Department of Community Affairs

		Square feet of
county	AREA NAME	office space
Atlantic		185,814
Bergen		1,162,790
Burlington		709,714
Camden		279,490
Cape May		66,272
Cumberland		92,628
Essex		698,866
Gloucester		239,379
Hudson		788,205
Hunterdon		322,707
Mercer		2,099,357
Middlesex		1,453,241
Monmouth		919,706
Morris		2,866,993
Ocean		490,241
Passaic		215,907
Salem		73,756
Somerset		1,431,689
Sussex		66,838
Union		1,006,693
Warren		37,174
State buildings		323,579
New Jersey		15,531,039

Square feet of retail space authorized by building permits, 2009

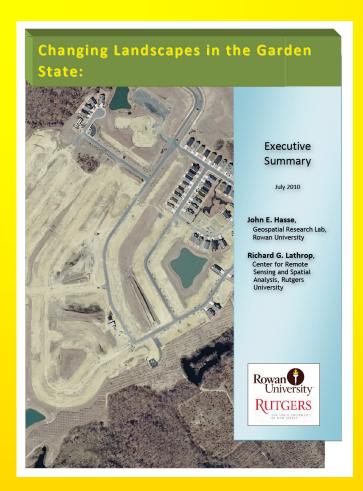
Source: New Jersey Department of Community Affairs, 6/7/10

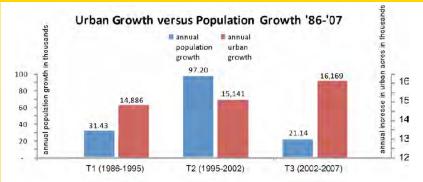
county	AREA NAME	Total	New Construction	Additions	rank
Atlantic		8,241	6,891	1,350	15
Bergen		228,352	228,352	0	3
Burlington		96,526	96,525	1	9
Camden		551,813	548,813	3,000	1
Cape May		201,681	193,606	8,075	4
Cumberland		23,916	23,908	8	13
Essex		29,692	18,264	11,428	12
Gloucester		154,536	153,036	1,500	7
Hudson		175,938	141,800	34,138	5
Hunterdon		0	0	0	19
Mercer		2,421	3	2,418	17
Middlesex		287,578	276,039	11,539	2
Monmouth		61,926	23,487	38,439	10
Morris		5,321	1,995	3,326	16
Ocean		169,908	157,458	12,450	6
Passaic		8,386	4,966	3,420	14
Salem		0	0	0	20
Somerset		0	0	0	21
Sussex		136,054	112,007	24,047	8
Union		58,049	9,812	48,237	11
Warren		61	0	61	18
State buildings	S	48,536	48,536	0	
New Jersey		2,248,935	2,045,498	203,437	

Square feet of office space authorized by building permits, 2009

Source: New Jersey Department of Community Affairs, 6/7/10

county	AREA NAME	Total	New Construction	Additions	rank
Atlantic		376,070	352,897	23,173	3
Bergen		237,494	190,035	47,459	6
Burlington		97,780	92,376	5,404	14
Camden		154,543	124,266	30,277	11
Cape May		66,439	61,940	4,499	17
Cumberland		90,702	40,835	49,867	15
Essex		204,722	111,789	92,933	7
Gloucester		67,673	63,480	4,193	16
Hudson		175,674	174,372	1,302	10
Hunterdon		58,286	57,500	786	18
Mercer		121,956	119,935	2,021	12
Middlesex		255,764	203,459	52,305	5
Monmouth		293,900	215,487	78,413	4
Morris		458,397	357,129	101,268	2
Ocean		189,679	180,115	9,564	9
Passaic		202,302	182,392	19,910	8
Salem		29,482	27,974	1,508	20
Somerset		678,023	656,423	21,600	1
Sussex		56,949	45,495	11,454	19
Union		119,666	69,499	50,167	13
Warren		9,683	5	9,678	21
State buildings	;	308,704	308,704	0	
New Jersey		4,253,888	3,636,107	617,781	





1 Introduction

The numbers are in for New Jersey's most recent statewide digital mapping dataset. Using high-precision aerial photography, the state has created one of the most comprehensive inventories of land composition of any state. The land use mapping initially developed by the NJ DEP in 1986 has just been updated to give a picture of land use patterns and changes in the Garden State up through 2007.

This report is part of an ongoing series of collaborative studies between Rowan and Rutgers Universities examining New Jersey's urban growth and land use change. The DEP data set utilized for the analysis represents a detailed mapping of the land use and land cover as depicted in high resolution aerial photography that was acquired in the spring of 2007. The imagery was then classified and mapped (Figure 1.1) providing a window into how the Garden State has developed over the past several decades (from 1986 through 2007) and the subsequent consequences to its land base.

It views land development patterns from several different angles providing a "report card" on urban growth

and open space loss.

What the data show is that is that urban development in the nation's most densely populated state has continued unabated and in fact gained momentum up through 2007. The data reveals a 7% increase in development rate to 16,061 acres of urbanization per year by 2007, up from the previous rate of 15,123 acres per year during the 1995 through 2002 time period. During the 21 year period since the datasets were first compiled, New Jersey urbanized a massive

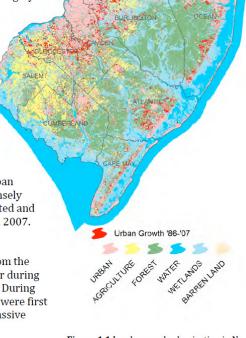


Figure 1.1 Land use and urbanization in New Jersey 1986 through 2007

Table 2.1 Level 1 land use/land cover for 1986, 1995, 2002 and 2007 time periods. Two Decades of New Jersey's Land Use Change

	1986 (acres)	1995 (acres)	2002 (acres)	2007 (acres)	21 year Change	21 yr % Change
Urban	1,208,553	1,334,542	1,452,503	1,532,809	324,256	26.8%
Agriculture	744,382	652,335	594,696	566,044	178,338	-24.0%
Forest	1,641,279	1,616,522	1,568,809	1,526,358	114,921	-7.0%
Water	783,260	800,610	803,185	810,095	26,835	3.4%
Wetlands	1,049,269	1,022,253	1,005,636	996,984	-52,285	-5.0%
Barren	57,223	56,698	59,138	51,678	-5,545	-9.7%

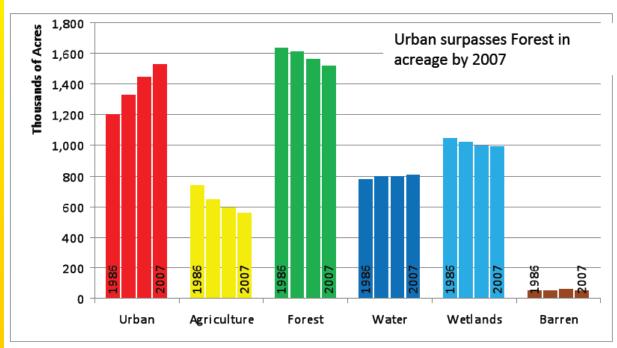


Figure 2.1. Change in each Level 1 category over the 1986, 1995, 2002 and 2007 time periods.

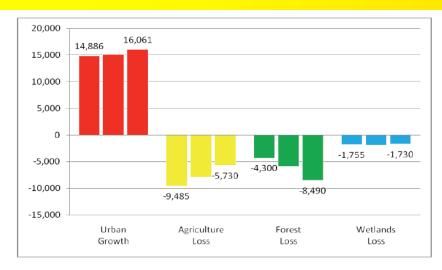


Figure 2.2 Annualized rates of land use change for the T1($^{\prime}86$ – $^{\prime}95$), T2($^{\prime}95$ – $^{\prime}02$) and T3($^{\prime}02$ – $^{\prime}07$) time periods.



Figure 4.1 Low density large lot residential units consumed about 67% of the open land developed into housing in New Jersey but housed only about 24% of the residents that occupied newly developed units. This pattern has remained consistent throughout the 21 period of the study.

Table 7.1 Acre/yr change in Level 1 land use during T3 by county. Highlighted in red are the top 5 and in yellow are the next 5 ranked counties in each category of land use change.

T3 Acres per Year Change

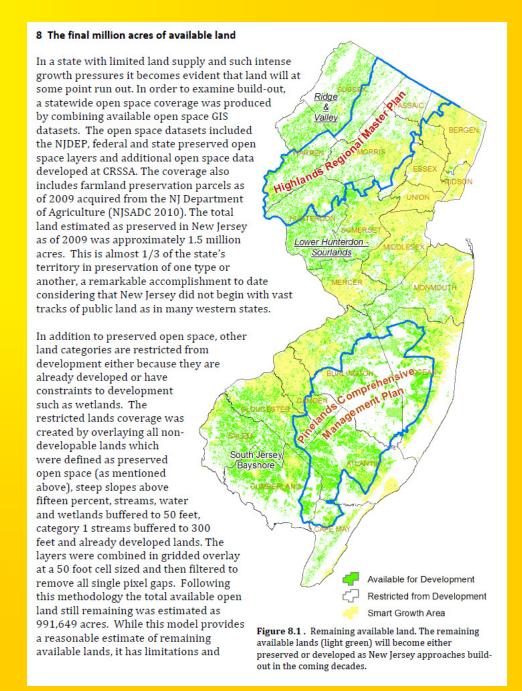
County	Urban	Ag	forest	wetland
Atlantic	1,104	-117	-856	-114
Bergen	284	-17	-319	-43
Burlington	1,412	-598	-600	-230
Camden	575	-139	-417	-50
Cape May	351	-130	-218	-27
Cumberland	524	-246	-376	-13
Essex	167	-3	-134	-22
Gloucester	1,531	-1,225	-422	-138
Hudson	90	0	-94	-19
Hunterdon	960	-470	-368	-43
Mercer	693	-444	-96	-71
Middlesex	1,128	-483	-398	-221
Monmouth	1,754	-583	-642	-244
Morris	930	-124	-685	-70
Ocean	1,565	-99	-1,414	-110
Passaic	191	0	-158	-17
Salem	327	-212	-60	-105
Somerset	909	-344	-311	-114
Sussex	875	-262	-582	-78
Union	59	-3	-47	-6
Warren	631	-233	-291	-28

Table 8.1 Estimated	availabla	lande hy N	I Smart Gro	swth Dlanning	Arose

Planning Area	Acres Avail	Land in	Acres Avail Land not						
	Smart Grow	th Zone	in Smart Growth Zo						
Pinelands	48,002	5%	198,759	20%					
Highlands	14,015	1%	147,302	15%					
State Plan	174,243	18%	409,328	41%					

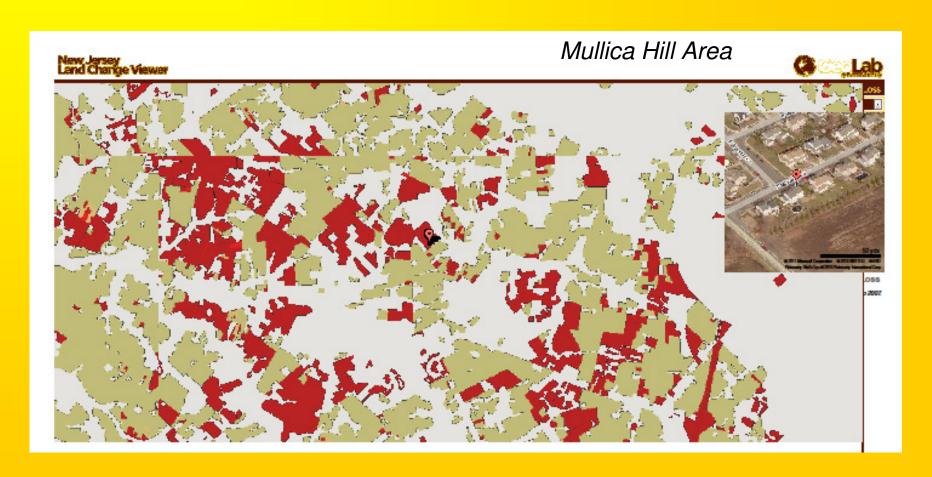
Development Growth
Significantly Exceeding
Population Growth
= Urban Sprawl

New Jersey has just Completed Its Two Most Sprawling Decades In History

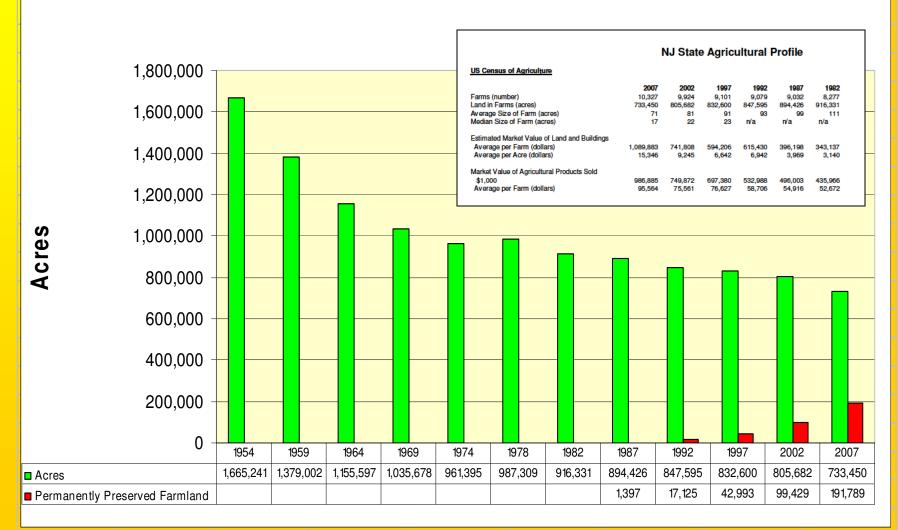


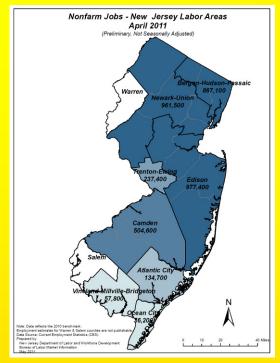
Gloucester County (1986 – 2007) Highest Rate of Agricultural Land Lost to Urbanization

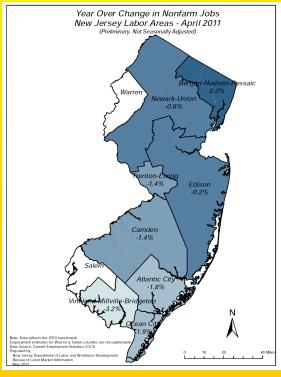
1,225 Farmland Acres Lost Per Year

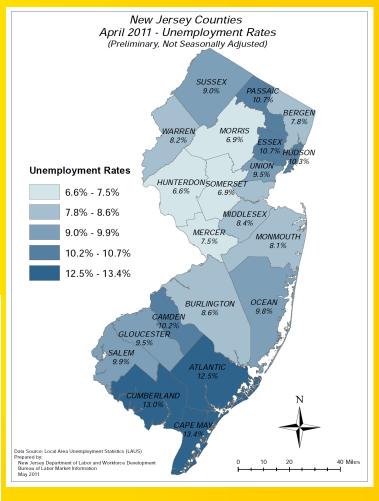


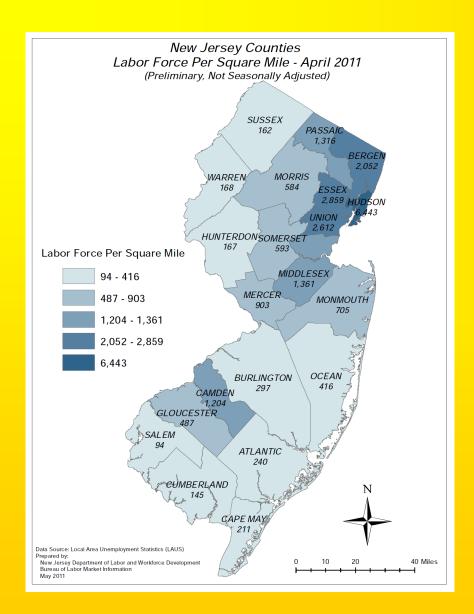
New Jersey Land in Farms 1954 - 2007 Permanently Preserved Farmland as of 5/31/11

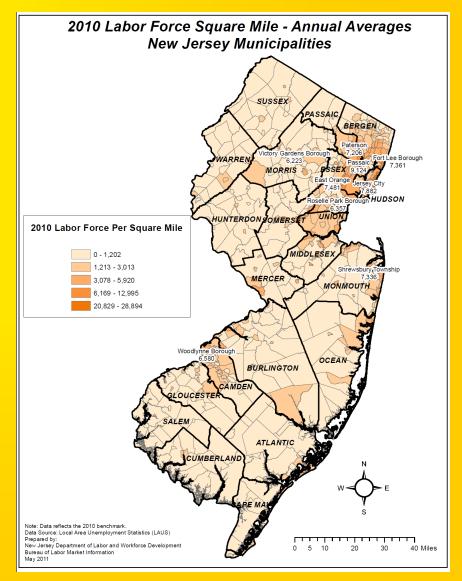




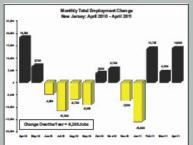


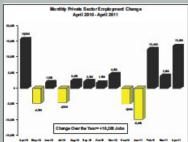




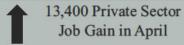


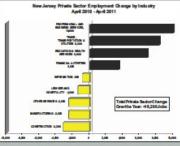
New Jersey Economy at a Glance: April 2011





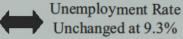
14,000 Total Nonfarm Job Gain in April

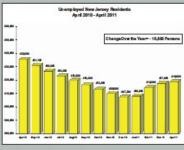


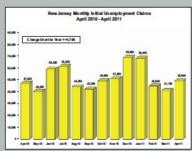




18,200 Private Sector Job Gain Over the Year







Unemployed Residents
Up Slightly in April

Initial UI Claims Up by 7,800 in April



For questions or further information please contact: Division of Labor Market & Demographic Research 609-984-6925



New Jarsey Department of Labor and Workforce Davelopment Labor Market and Demographic Research Bureau of Labor Statistics

New Jersey Annual Averages Local Area Unemployment Statistics Model Estimates 2010 Benchmark

* Numbers May Not Add Due to Rounding

March 10, 2011

	Civilian Noninstitutional		Resident	Unemployment		Labor Force Participation	Population
Year	Population	Force	and the same	vel Rate(_	Rate (%)	Ratio
2010	6,812,200	4,502,400	4,07E,700	425,700	9.5	66.1	59.8
2009	6,766,200	4,526,500	4,116,400	410,100	9.1	66.9	60.8
2008	6,722,100	4,501,600	4,256,300	245,400	5.5	67.0	63.3
2007	6,686,100	4,456,300	4,265,300	191,100	4.3	66.7	63.8
2006	6,658,200	4,465,100	4,257,900	207,200	4.6	67.1	64.0
2005	6,630,700	4,404,500	4,207,700	196,700	4.5	66.4	63.4
2004	6,602,600	4,355,900	4,144,200	214,700	4.9	66.0	62.7
2003	6,573,500	4,363,900	4,108,400	255,500	5.9	66.4	62.5
2002	6,535,900	4,370,800	4,117,300	253,500	5.5	66.9	63.0
2001	6,488,900	4,302,300	4,117,500	184,800	4.3	66.3	63.4
2000	6,440,400	4,257,500	4,130,300	157,500	3.7	9.39	64.1
1339	6,399,000	4,284,600	4,092,700	191,800	4.5	67.0	64.0
1295	6,352,400	4,242,400	4,047,100	195,300	4.6	66.8	63.7
1997	6,301,900	4,257,400	4,031,000	226,400	5.3	67.6	64.0
1996	6,247,200	4,184,100	3,925,500	258,300	6.2	67.0	62.8
1995	6,196,900	4,111,800	3,846,300	265,500	6.5	66.4	62.1
1294	6,158,200	4,067,500	3,790,000	277,500	6.8	66.0	61.5
1993	6,128,500	4,034,600	3,7 27,300	307,300	7.6	65.8	60.8
1992	6,097,400	4,051,900	3709.500	342,400	8.5	66.5	60.8
1291	€,07€,000	4,050,400	3,776,600	273,700	6.8	66.7	62.2
1220	6,045,500	4,072,500	3,865,000	207,500	5.1	67.4	63.9
1989	6,032,500	3,989,000	3,826,000	163,000	4.1	66.1	63.4
2000	6,031,300	3,975,000	3,824,000	151,000	3.5	65.9	63.4
1996	6,002,000	3,966,000	3,806,000	160,000	4.0	66.1	63.4
1986	5,947,800	3,908,000	3,712,000	197,000	5.0	65.7	62.4
			_			_	_
1985	5,869,300	3,839,000	3,621,000	217,000	5.7	65.4	61.7
1984	5,834,300	3,825,000	3,529,000	296,000	6.2	65.6	61.5
1983	5,779,000	3,673,000	3,385,000	255,000	7.5	63.6	58.6
1982	5,714,300	3,632,000	3,306,000	326,000	2.0	63.6	57.9
1981	5,662,300	3,593,000	3,330,000	263,000	7.3	61.5	58.8
1980	5,599,200	3,594,000	3,334,000	260,000	7.2	64.2	59.5
1979	5,553,900	3,570,000	3,323,000	247,000	6.9	64.3	59.8
1975	5,497,900	3,457,000	3,209,000	248,000	7.2	62.9	58.4
1977	5,437,000	3,383,000	3,065,000	317,000	2.4	62.2	55.4
1976	5,383,000	3,318,000	2,973,000	346,000	10.4	61.6	55.2
						_	
1975	5,329,000	3,264,000	2,929,000	334,000	10.2	61.2	55.0
1974	5,270,000	3,226,000	3,023,000	204,000	6.5	61.2	2.4
1973	5,212,000	3,190,000	3,011,000	180,000	5.6	61.2	57.8
1972	5,149,000	3,117,000	2,935,000	182,000	5.5	60.5	57.0
1971	5,061,000	3,012,000	2,840,000	172,000	5.7	59.5	56.1
1970	4,964,000	2,996,000	2,859,000	138,000	4.6	60.4	57.6

NOTE: Estimates prior to 1978 are not comparable to 1978 and forward. Population and labor force data revised back to 2008. For further information, contact Research Electric at (899) 777-2193.

New Jersey Department of Labor and Workforce Development Labor Market and Demographic Research Byreau of Labor Statistics

Now Jersey Annual Averages Local Area Unemployment Statistics Model Estimates

* Numbers May Not Add Due to Rounding

March 10, 2011

Year	Civilian Noninstitutional Population	Civilian Labor Force	Resident Employment	Unemployn Level	nent Rate(%)	Labor Force Participation Rate (%)	Employment Population Ratio
2010	6,812,200	4,502,400	4,076,700	425,700	9.5	66.1	59.5
2009	6,766,200	4,526,500	4,116,400	410,100	9.1	66.9	60.B
2008	6,722,100	4,501,600	4,256,300	245,400	5.5	67.0	63.3
2007	6,686,100	4,456,300	4,265,300	191,100	4.3	66.7	63.8
200€	6,658,200	4,465,100	4,257,900	207,200	4.6	67.1	64.0
2005	6,630,700	4,404,500	4,207,700	196,700	4.5	66.4	63.4
2004	6,602,600	4,355,900	4,144,200	214,700	4.9	66.0	62.7
2003	6,573,500	4,363,900	4,108,400	255,500	5.9	66.4	62.5
2002	6,535,900	4,370,800	4,117,300	253,500	5.8	66.9	63.0
2001	6,488,900	4,302,300	4,117,500	184,800	4.3	66.3	63.4
2000	6,440,400	4,287,800	4,130,300	157,500	3.7	66.6	64.1
1222	6,339,000	4,284,600	4,092,700	191,800	4.5	67.0	64.0
1998	6,352,400	4,242,400	4,047,100	195,300	4.6	66.8	63.7
1997	6,301,900	4,257,400	4,031,000	226,400	5.8	67.6	64.0
1996	6,247,200	4,184,100	3,925,800	258,300	6.2	67.0	62.8
1995	6,196,900	4,111,800	3,846,300	265,500	6.5	66.4	62.1
1294	6,158,200	4,067,500	3,790,000	277,500	6.8	66.0	61.5
1293	6,125,500	4,034,600	3,7 27,300	307,300	7.6	65.8	60.8
1992	6,097,400	4,051,900	3,709,500	342,400	8.5	66.5	60.8
1291	6,076,000	4,050,400	3,776,600	273,700	6.8	66.7	62.2
1990	E 045 500	4 072 500	3.865.000	207 500	51	ET 4	Ex o

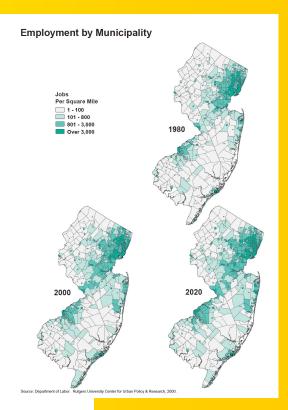
New Jersey Department of Labor Labor Planning and Analysis Labor Market and Demographic Research Bureau of Labor Force Statistics

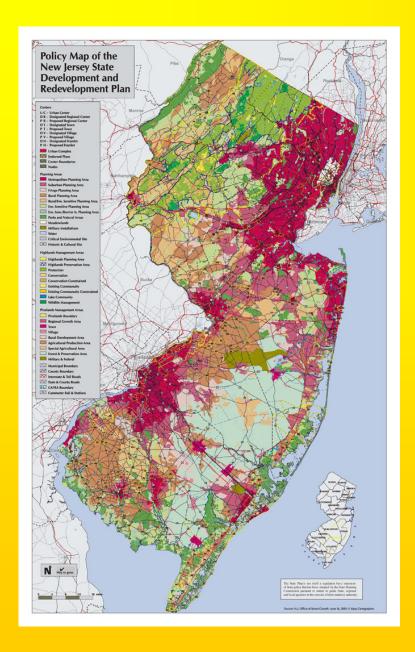
New Jersey Annual Average * Unemployment Rate by County: 1990 - 2010

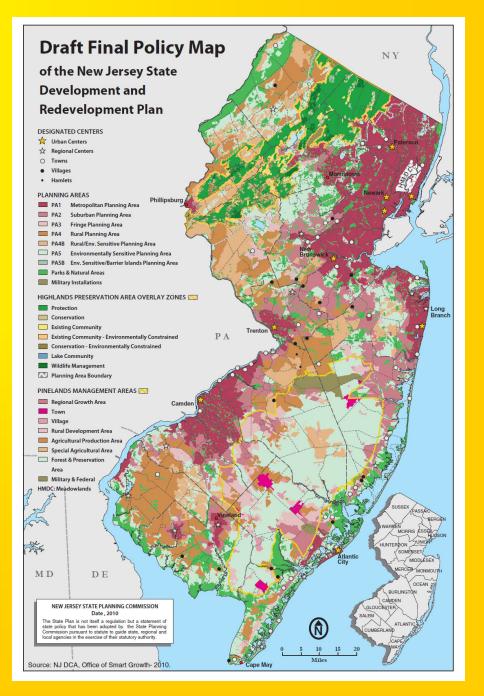
April 27, 2011

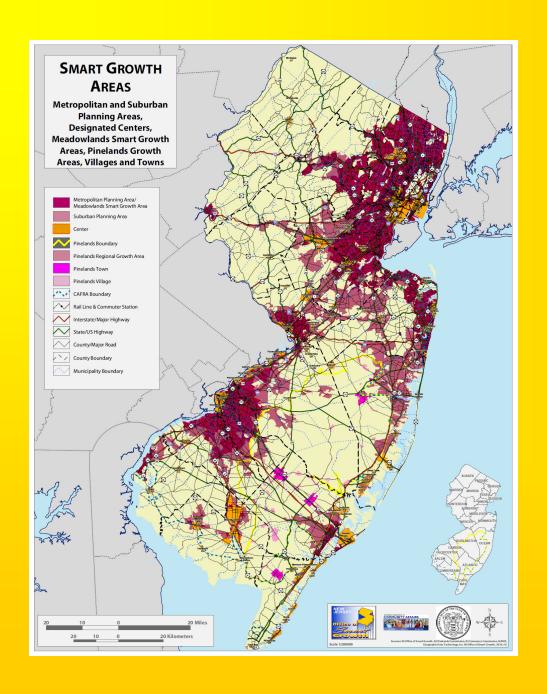
COUNTY	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Atlantic County	6.2	8.9	10.3	9.6	8.7	8.6	8.3	7.7	7.8	7.0	4.7	4.8	6.0	6.2	5.6	5.3	5.7	5.9	7.0	11.9	12.4
Bergen County	3.9	5.4	7.2	6.8	6.2	5.8	5.3	4.5	3.6	3.6	3.1	3.8	5.1	5.1	4.2	3.7	3.9	3.5	4.5	7.8	8.1
Burlington County	4.7	6.3	7.8	6.2	5.3	5.0	4.7	4.0	3.4	3.3	3.1	3.6	4.8	4.8	4.1	3.8	4.1	3.8	5.0	8.4	9.0
Camdon County	5.9	7.8	9.2	7.5	6.8	6.5	6.0	5.1	4.5	4.6	3.9	4.4	5.9	6.1	5.3	4.8	5.2	4.8	6.0	9.9	10.6
Cape May County	7.8	10.3	13.2	13.3	12.7	12.2	11.8	11.2	10.5	9.8	6.4	6.7	8.0	8.1	6.9	6.6	6.9	6.6	8.1	11.2	11.9
Cumberland County	7.6	10.1	12.2	11.5	10.5	9.9	9.9	8.9	8.9	8.3	5.8	6.5	7.6	7.9	6.6	6.4	6.9	6.5	8.0	12.5	13.3
Essax County	6.3	8.2	10.0	9.3	8.3	7.7	7.8	6.8	5.6	5.6	4.5	5.4	7.2	7.3	6.2	5.6	5.8	5.4	6.6	10.3	11.0
Gloucester County	5.7	7.6	8.8	7.3	6.7	6.6	6.2	5.1	4.5	4.4	3.6	4.0	5.2	5.4	4.7	4.4	4.7	4.3	5.4	9.2	10.0
Hudson County	7.3	8.8	11.2	10.2	9.3	9.4	9.2	8.1	7.3	7.1	4.8	5.6	7.7	7.4	6.1	5.4	5.5	5.0	6.3	10.5	10.8
Hunterdon County	2.7	3.8	5.1	4.5	3.7	3.2	3.1	2.5	2.2	2.0	2.3	2.8	4.1	4.3	3.4	3.1	3.3	2.9	3.8	6.7	7.0
Mercer County	4.5	5.7	6.6	5.9	5.4	5.5	5.6	4.7	4.1	3.8	3.3	3.8	5.3	5.2	4.3	3.9	4.2	3.8	4.8	7.6	7.8
Middlesex County	4.5	5.8	7.6	6.9	5.8	5.6	5.2	4.3	3.7	3.6	3.3	4.0	5.6	5.5	4.6	4.2	4.3	3.9	5.0	8.5	8.7
Monmouth County	4.2	5.9	7.4	6.3	5.8	5.5	5.3	4.6	4.0	3.9	3.2	3.8	5.3	5.4	4.5	4.1	4.1	3.8	4.9	8.3	8.6
Morris County	3.2	4.9	6.3	5.8	5.0	4.4	4.0	3.4	2.8	2.7	2.6	3.3	4.6	4.6	3.7	3.3	3.3	3.0	4.0	7.1	7.3
Ocean County	5.1	6.9	8.3	7.1	6.6	6.2	6.1	5.5	4.8	4.5	3.7	4.1	5.5	5.8	5.1	4.6	4.9	4.6	5.9	9.5	10.1
Passaic County	6.4	8.2	10.6	10.2	9.4	8.7	8.3	7.0	5.8	6.1	4.6	5.4	7.0	7.3	6.2	5.5	5.6	5.4	6.8	11.0	11.3
Salem County	5.3	7.2	8.5	7.2	6.8	6.6	7.2	5.9	5.1	4.6	3.9	4.4	5.8	6.0	5.3	4.8	5.0	5.0	6.3	10.6	11.3
Somerset County	2.9	4.0	5.2	4.9	4.3	3.8	3.4	2.9	2.5	2.3	2.6	3.3	4.8	4.6	3.7	3.4	3.4	3.1	4.1	7.3	7.4
Sussex County	4.2	6.1	8.0	7.3	6.4	5.8	5.3	4.5	3.6	3.4	2.9	3.7	4.9	5.2	4.4	3.9	4.1	3.9	5.0	8.6	9.3
Union County	5.4	7.0	8.7	8.2	7.2	6.6	6.3	5.6	4.8	4.7	3.9	4.6	6.4	6.3	5.3	4.8	4.9	4.5	5.7	9.3	9.6
Warren County	4.3	6.1	7.8	7.1	6.3	5.8	5.5	4.7	4.0	4.0	2.9	3.5	4.9	5.0	4.4	3.9	4.1	3.8	5.0	8.7	9.1
Statowide	5.1	6.8	8.5	7.6	6.8	6.5	6.2	5.3	4.6	4.5	3.7	4.3	5.8	5.9	4.9	4.5	4.6	4.3	5.5	9.1	9.5

*: All years on most recent available benchmark. NOTE: Please refer to the technical note for additional information.





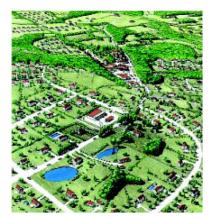




Rural Village



Existing Conditions: Parts of New Jersey still exhibit a predominantly rural landscape, with compact towns and village centers surrounded by farms, woodland and rural hamlets. Farmland and open space forms a continuous, productive landscape, with a mosaic of woodlands, hedgerows and small fields providing important wildlife habitat. Buildings are clustered in villages, hamlets and farmsteads with traditional architecture that harmonizes with the natural setting. The character of this rural landscape is an important asset for New Jersey, yet much is currently zoned for large-lot suburban sprawl.

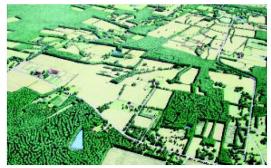


Trend Development: Suburban development destroys farmland, open space and natural features. Rigid zoning codes create homogenous tracts of single-family homes on large lots, overwhelming the original village. Individual septic systems are more likely to pollute the groundwater and conflict with wells. Local roads become congested. The traditional, locally based economy withers. The area has lost its rural character.



Plan Development: The rural village has grown and prospered, with new mixed-use development occurring in or adjacent to the center. New buildings share or complement the character and appearance of existing structures. New development outside the village occurs in hamlets or in carefully sited estate lots. Extensive areas of farmland and woodlands are maintained. Headwaters and groundwater recharge areas are protected. Natural systems handle wastewater and stormwater. Greenway corridors link communities, providing public access to the countryside. The scenic qualities of a rural community are protected and enhanced, while the local economy is preserved.

Rural Valley



Existing Conditions: A rural valley comprises about 1,000 acres of open and wooded land, farms, ponds and streams. While there are several vibrant traditional hamlets and villages nearby, and the community enjoys the valley's scenic vistas, the entire area is zoned for residential development, with an inflexible two-acre minimum lot size. There is considerable pressure to develop the valley with large, expensive homes, given its proximity to several major corporate employment centers.

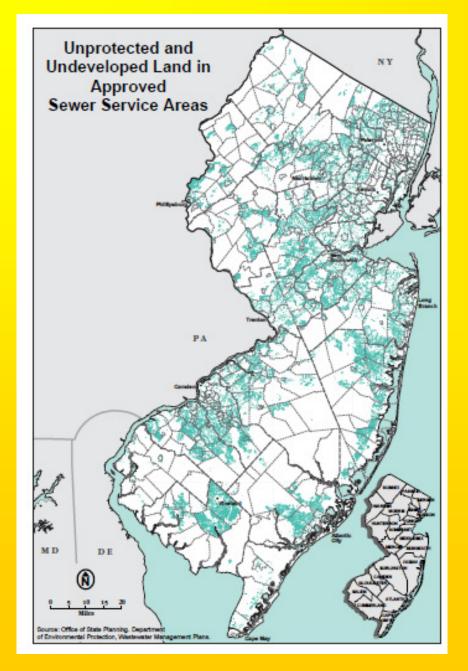


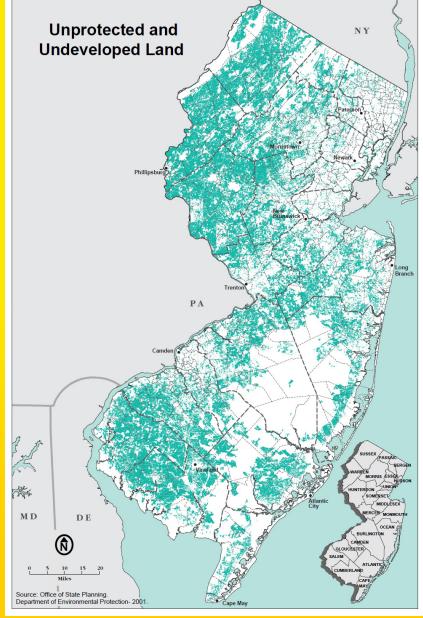
Trend Development: Conventional zoning formulas result in about 300 residential lots. The entire valley is carved up into land holdings, too small to protect farmland or provide open space and too large to provide for affordable housing, while completely destroying its scenic character. Much of the original vegetation is removed. New roads intersect the valley, and residents must drive to almost any activity. The valley's special character has been lost, replaced by an anonymous suburban landscape.

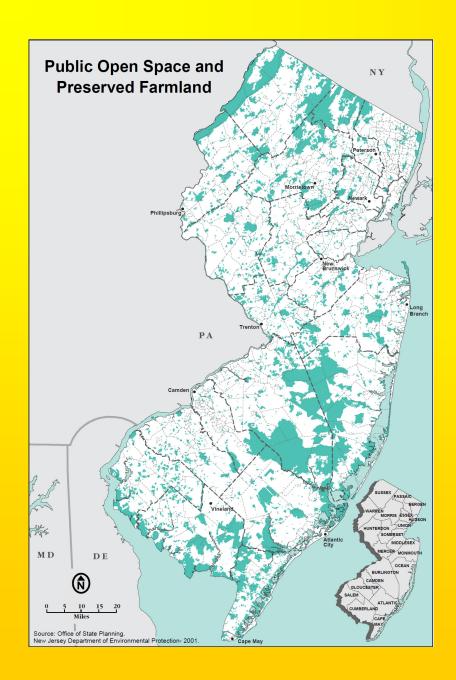


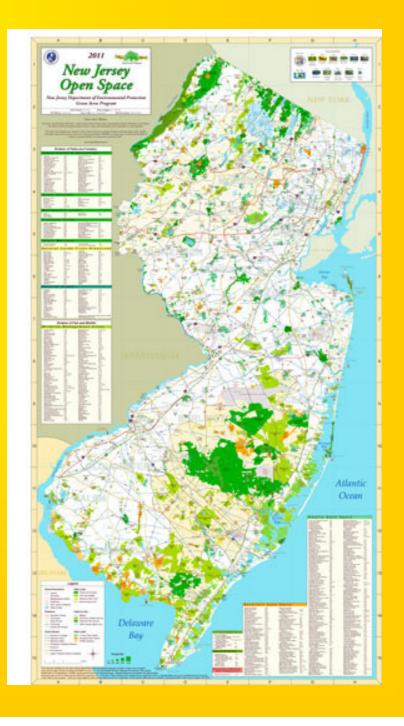
Plan Development: The community replaces its conventional zoning and adopts a flexible, design intensive code. This allows development of the same 300 houses, but clustered in a village, leaving scenic vistas intact and 85 percent of the valley as open space. Helping to provide affordable housing, residential lot sizes n the village can reach 7,500 square feet—a traditional village lot. Design techniques such as shared driveways and rear alleys—borrowed from historic hamlets and villages in the region—allow for improvements in density and quality of life. The new village has a small mixed-use center,

with a community building, recreation facilities, a few shops and office space for local professionals. The surrounding open countryside is preserved, through land acquisition or easements. Negative environmental impacts of development have been minimized. The valley provides an enduring place for human habitation in proximity to natural landscapes.









RUTGERS Edward J. Bloustein School of Planning and Public Policy

Impact Assessment of the New Jersey State Development and Redevelopment Plan



- I. TREND PROJECTIONS **II. PLAN PROJECTIONS:**
- **POPULATION**
- **HOUSEHOLDS**
- **HOUSING UNITS**
- **EMPLOYMENT**

New Jersey, by Municipality and County: 2000-2008 2008-2028

Robert W. Burchell, PhD

CENTER FOR URBAN POLICY RESEARCH Edward J. Bloustein School of Planning and Public Policy Office of Smart Growth Rutgers, The State University of New Jersey 33 Livingston Avenue New Brunswick, New Jersey 08901-1982

Prepared for:

Trenton, New Jersey

NEW JERSEY DEPARTMENT OF COMMUNITY AFFAIRS 101 South Broad Street

DECEMBER 11, 2009

POPULATION PROJECTIONS

Projected Population Growth— TREND and PLAN†

State of New Jersey, 2000-2028

Year (April)	Population	Change from Prior Period
2000	8,414,350	
2004	8,620,770	
2008	8,682,661	268,311
2013	8,804,367	
2018	8,973,685	
2023	9,185,948	
2028	9,428,438	745,777

HOUSEHOLD PROJECTIONS

Projected Household Growth-TREND and PLAN

State of New Jersey, 2000-2028

Year	Households	Change from Prior Period
2000	3,064,645	
2004	3,158,797	
2008	3,251,044	186,399
2013	3,293,448	
2018	3,353,564	
2023	3,429,599	
2028	3,516,762	265,718

HOUSING-UNIT PROJECTIONS

Projected Housing-Unit Growth-TREND and PLAN

State of New Jersey, 2000-2028

Year	Housing Units	Change from Prior Period
2000	3,310,275	
2004	3,414,916	
2008	3,517,293	207,018
2013	3,557,696	
2018	3,617,068	
2023	3,693,400	
2028	3,781,464	264,171

Source: 2000-2008 U.S. Census estimates

EMPLOYMENT PROJECTIONS

Projected Employment Growth-TREND and PLAN

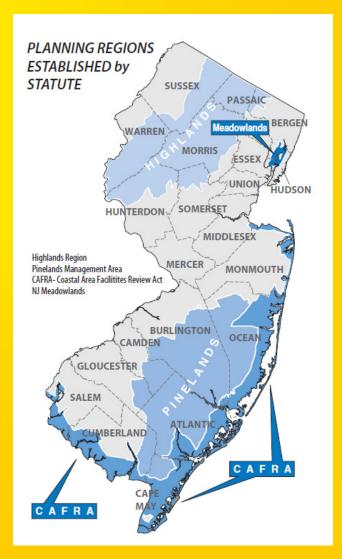
State of New Jersey, 2000-2028

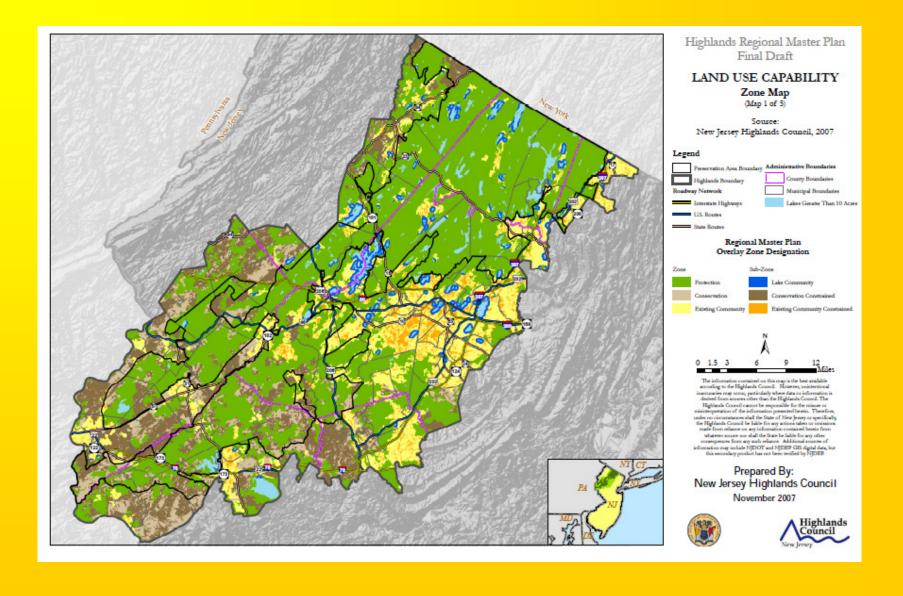
Year (December)	Employment	Change from Prior Period
2000	4,023,900	
2004	4,021,400	(-2,500)
2008	4,000,500	(-20,900)
2013	3,866,500	(-134,000)
2018	3,986,500	+120,000
2023	4,091,500	+105,000
2028	4,262,500	+171,000

Source: 2000-2008 Bureau of Labor Statistics. Total Nonfarm Employment

State Development and Redevelopment Plan Special Resource Planning Areas

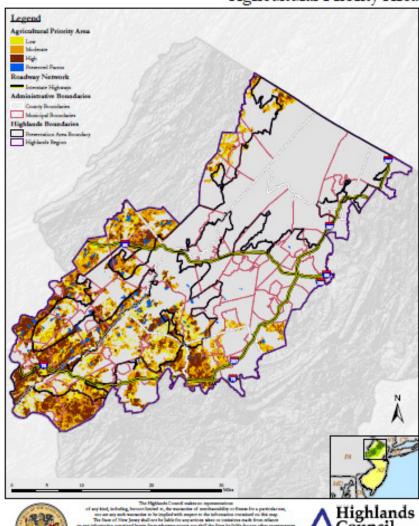
- Pinelands
- Highlands
- Meadowlands
- CAFRA
- Sourlands
- Delaware Bayshore
- Raritan Bayshore
- Liberty Corridor





Agricultural Resource Area Legend Resource Area Agricultural Resource Area Roadway Notwork Intentate Highways Administrative Boundaries County Roundaries Municipal Roundaries Highlands Boundaries Tree-valor Are Boundary Highlands Region The Allguerus Council areas no specialistics of the service of the Highlands Council Highlands Regional Master Plan Final Draft, November 2007 New Jersey New Jersey Highlands Council, 2006

Agricultural Priority Area

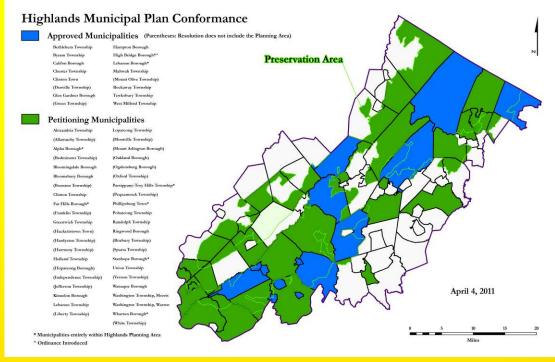


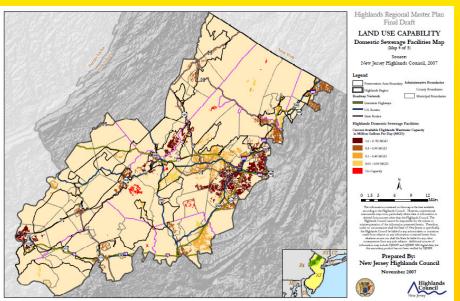


Highlands Regional Master Plan Final Draft, November 2007

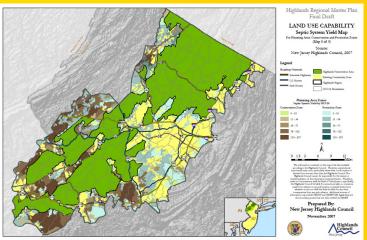


Strates New Jeney Highlands Council, 2007 State Agriculture Development Committee, 2006





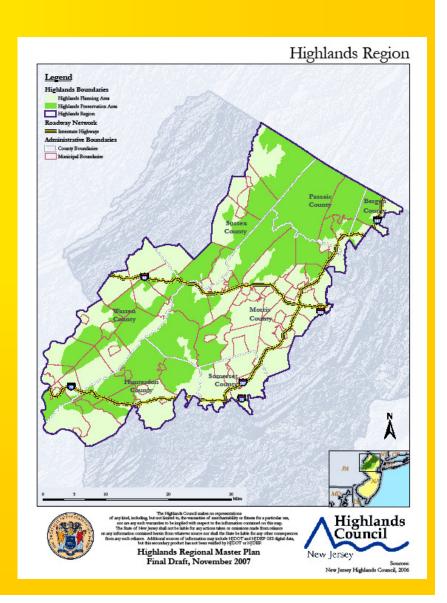




TDR in the New Jersey Highlands

New Jersey Highlands Region

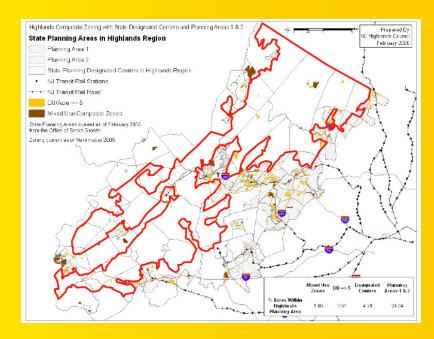
- 2004 New Jersey Highlands Act
- Scale of the Program
 - 850,000 acres
 - 88 Highlands Municipalities
 - 7 Counties
 - High Geographic diversity
- Broad diversity in Land Use intent and values
- Existing and Planned infrastructure and geographic differences
- TDR identified as <u>primary</u> equity compensation tool

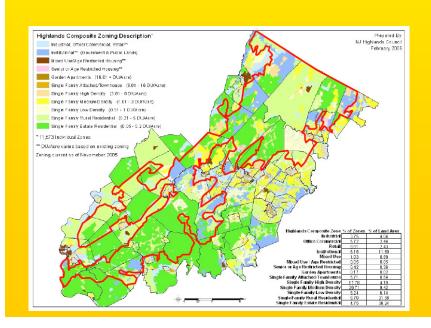


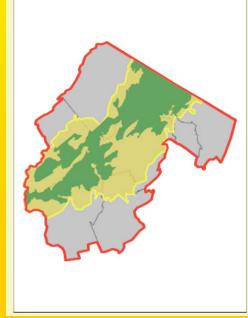
Highlands TDR Program Objectives

- Preservation of ecologically, agriculturally, historically or culturally important lands of the Highlands Region
- Ensure landowner equity for those properties impacted by Highlands Act









Voluntary TDR Receiving Zone

Seven Highlands Counties

= 145,634 acres

Hunterdon = 214,964

Bergen

Morris = 187,029

Passaic = 47,968

Somerset = 194,093

Sussex = 272,063

Warren = 165,047

TOTAL = 1,226,798 acres

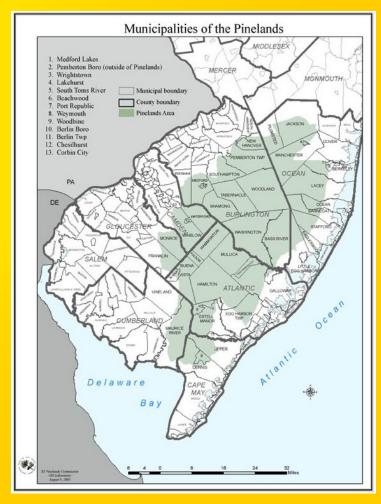
213 Qualifying Municipalities

New Jersey Pinelands Development Credit Program

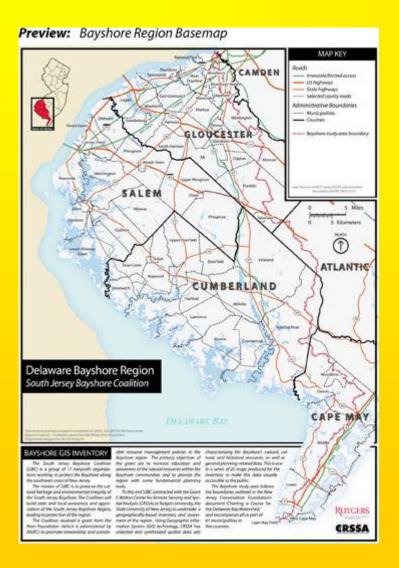


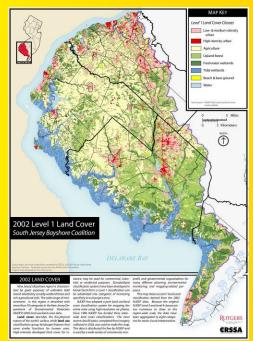
1979 Pinelands Protection Act

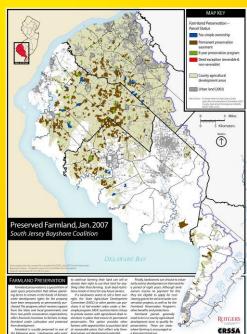
- Regional Growth Areas identified
- Preservation Areas identified & down-zoned
- TDR (PDC) program established 1981
 - Base zoning 1-4.5 du/ac
 - PDCs add 0.5-1.5 additional du/ac.
- Supreme court challenge defeated
- 5,800 development rights severed
- 600 projects; 4,500 units built/scheduled
- 50,000 acres preserved thru PDC program



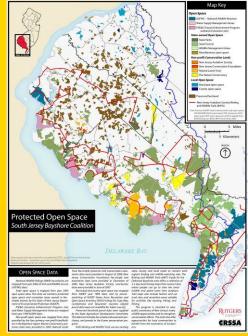
Delaware Bayshore

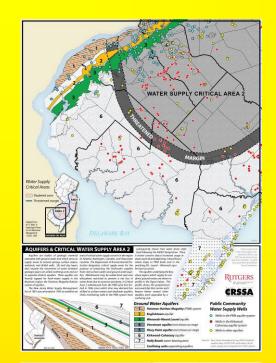


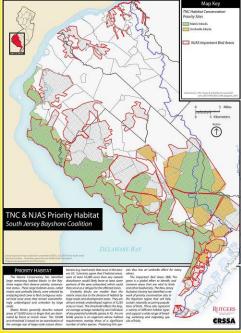


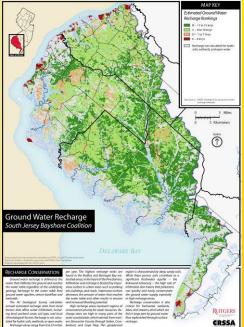


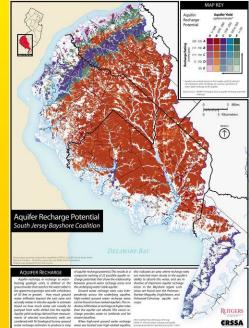


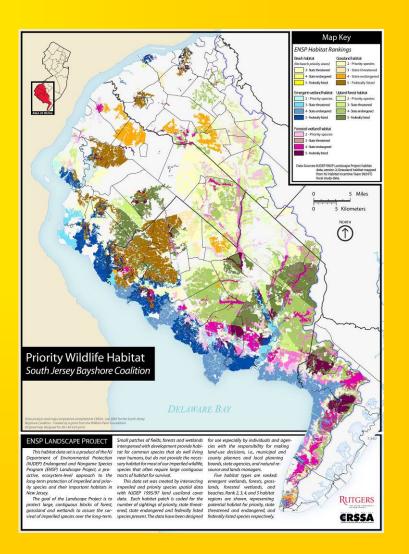






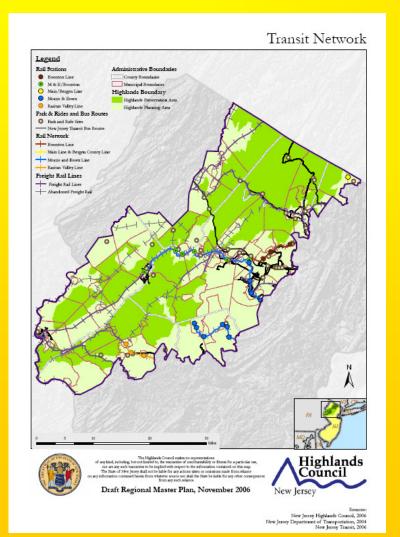


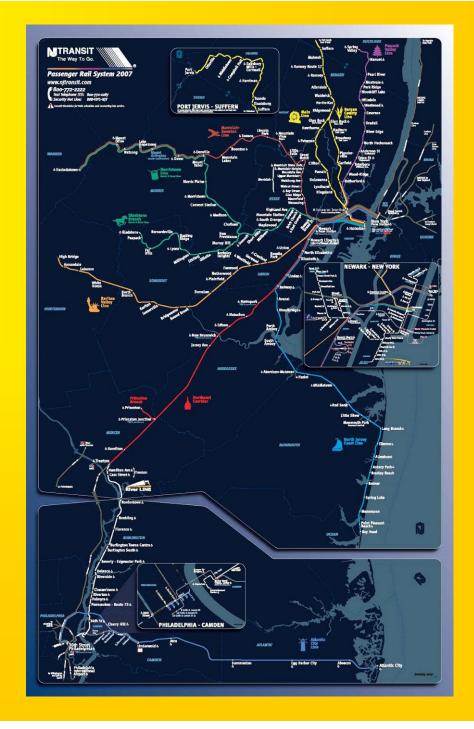




















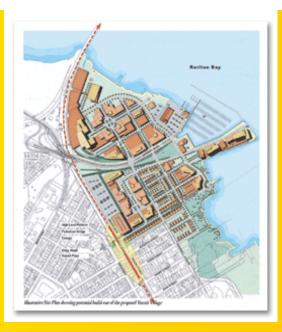
Overview

The New Jersey Department of Transportation (NJDOT) and NJ TRANSIT spearhead a multi-agency Smart Growth partnership known as the Transit Village Initiative. The Transit Village Initiative helps to redevelop and revitalize communities around transit facilities to make them an appealing choice for people to live, work and play, thereby reducing reliance on the automobile.

The Transit Village Initiative is an excellent model for Smart Growth because it encourages growth in New Jersey where infrastructure and public transit already exist.

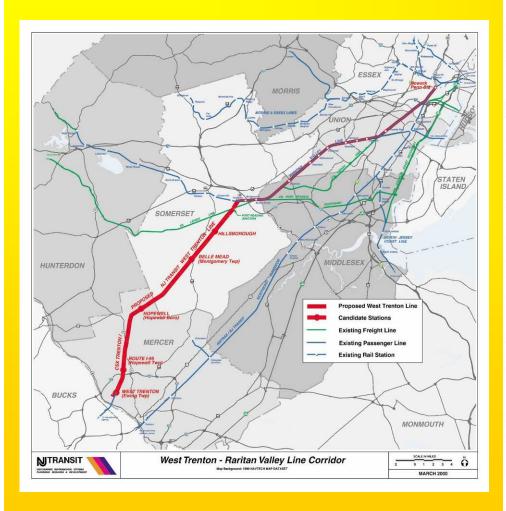
Aside from Smart Growth community revitalization, two other goals of the Transit Village Initiative are to reduce traffic congestion and improve air quality by increasing transit riders.

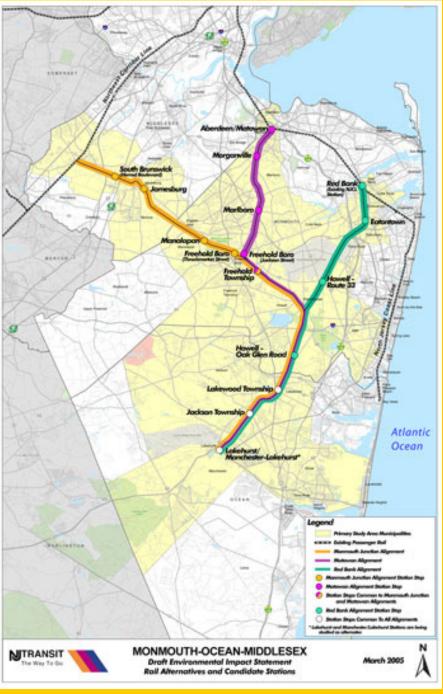
Studies have shown that an increase in residential housing options within walking distance of a transit facility, typically a one quarter to one half mile radius, does more to increase transit ridership than any other type of development. Therefore, it is a goal of the Transit Village Initiative to bring more housing, more businesses and more people into communities with transit facilities.

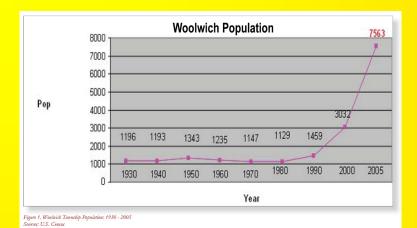


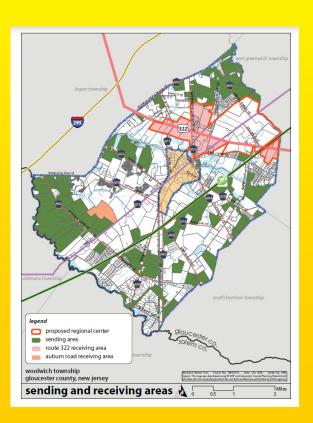
How many designated Transit Villages are there?

There are currently 17 designated
Transit Villages. They are
Pleasantville (1999), Morristown
(1999), Rutherford (1999), South
Amboy (1999), South Orange
(1999), Riverside (2001), Rahway
(2002), Metuchen (2003), Belmar
(2003), Bloomfield (2003), Bound
Brook (2003), Collingswood
(2003), Cranford (2003) Matawan
(2003), New Brunswick (2005),
Journal Square/Jersey City (2005)
and Netcong (2005).



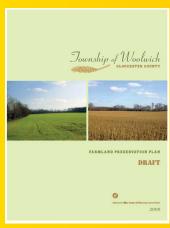


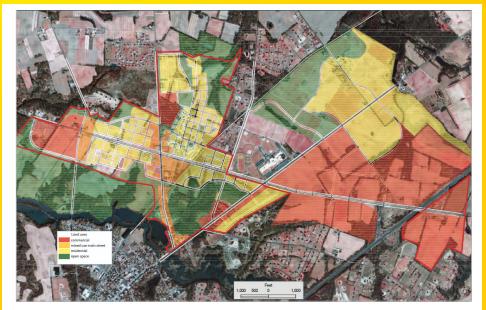












1990



2000



2050





ECONOMICS HOUSING MIX CREDIT ALLOCATION

US 322 Corridor Receiving Zone

100 SFD 1000 Twins

1600 Townhouses / Flats 500 (Flats above Stores)

Auburn Road

130 SFD 162 Twins

210 Townhouses

Woolwich New Town Credit Allocation

 1.3 SFD
 = 1 credit

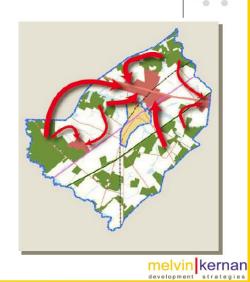
 1.8 Duplex or Twin
 = 1 credit

 2.8 Townhouse
 = 1 credit

 3.0 Urban Apt/Flat
 = 1 credit

Auburn Road Credit Allocation

1.6 Duplex or Twin = 1 credit 2.5 Townhouse = 1 credit

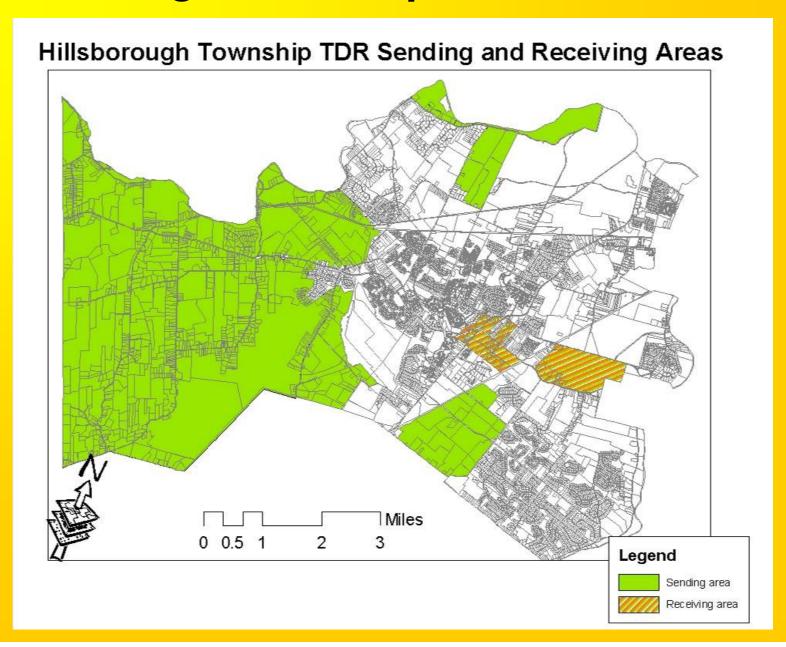


Population, Household, And Employment Projections Woolwich Township: 2005 – 2015 – 2025								
	2005	2015	2025	% Change 2005-2015	% Change 2015- 2025			
Population	7,563	21,188	30,573	180.2%	44.3%			
Households*	2,703	7,438 - 7,530	11,315 – 11,733	176.9%	54.0%			
Employment	1,165**	2,594	4,942	122.7%	90.5%			

^{*}Range represents slight difference in projections prepared by melvin | kernan and those prepared by Urban Partners.

^{**2005} employment estimate is based on DVRPC forecast.

Hillsborough Township, Somerset County



Hillsborough Twp - Areas of Interest

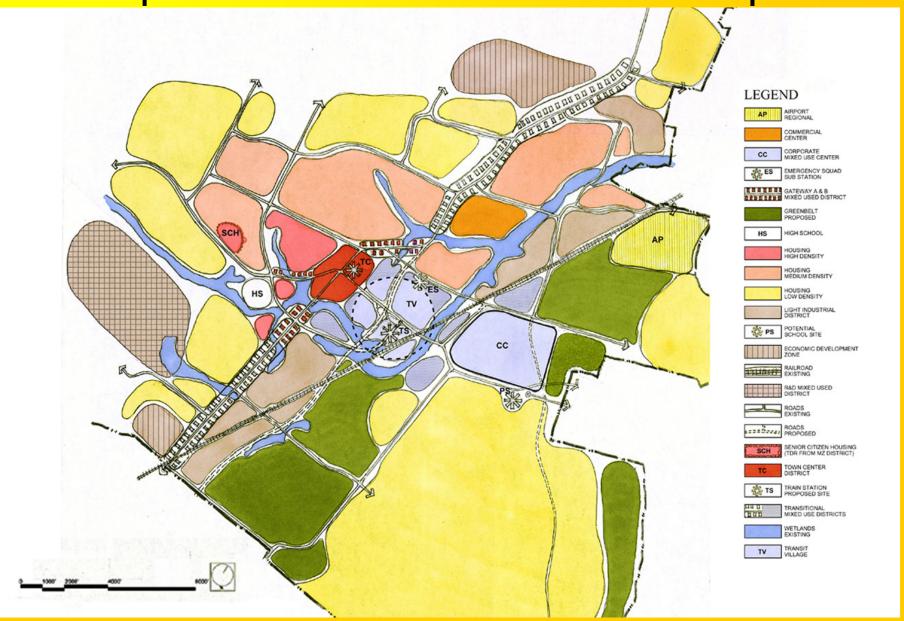


Transit Village and Corporate Center

- Focus on 206 Bypass interchange and future train station
- Primarily employment centers
- Affordable housing as buffers to existing residential uses
- Use TDR to transfer density from remaining CDZ land
- Create open space buffer

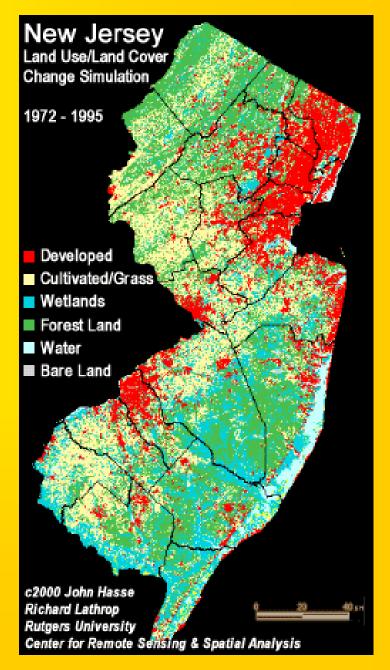


Proposed land use – schematic plan



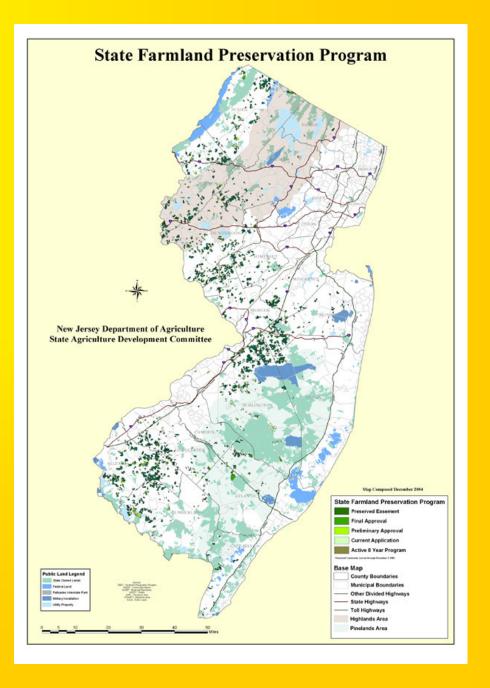
The Planning Toolbox: Options for Agricultural Preservation

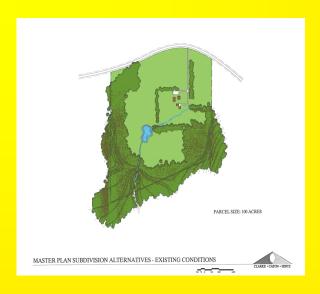




1. Purchase of Development Rights

- Voluntary Sale by Landowners
- Effective Equity Compensation
- Precludes Non-Agricultural Development
- Perpetual Deed of Easement
- Agricultural Development Areas
 Establish Geographic Focus
- 2,014 Farms / 191,789 Acres in173 Municipalities Preserved to Date
- Uses Established SADC, CADB, Municipal PIG and Non-Profit Programs





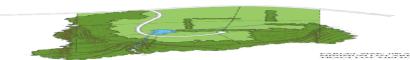
2. Large Lot Zoning / Downzoning

- Municipality Increases Minimum Lot Size
- Reduces Development Density, Usually Residential
- ❖Sometimes Referred to as
- "Planned Sprawl"



MASTER PLAN SUBDIVISION ALTERNATIVES - CONVENTIONAL SUBDIVISION





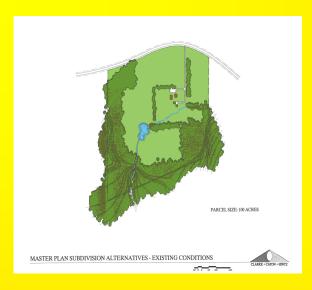
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Large Lot Zoning Not the Answer

Rutgers Land Use Study Acres Developed 1986 – 1995 NJDEP Land Use / Land Cover Data

Residential, Rural, Single Unit	45.448 ac
Other Urban or Built-Up Land	22.696 ac
Residential, Single Unit, Low Density	21,434 ac
Residential, Single Unit, Medium Density	20,194 ac
Residential, High Density, Multiple Dwelling	11,099 ac
Commercial / Services	9,137 ac
Recreational Land	6,146 ac
Industrial	5,352 ac
Transportation / Communication	4,977 ac

CRSSA



3. Cluster Zoning

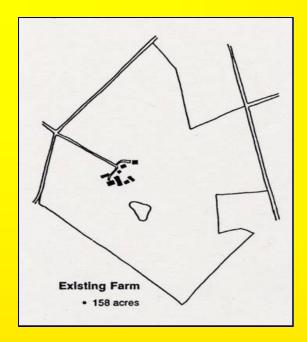
- Concentrates Development on a Portion of a Property
- Preserves Remainder of Property
- Can be Used for Agricultural, Environmental and/or Recreational Purposes
- Can be Implemented on a Voluntary or Mandatory Basis
- Can Include Lot Size Averaging and Open Lands Ratios

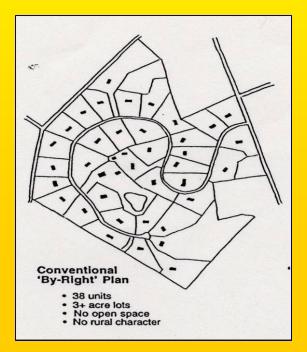


MASTER PLAN SUBDIVISION ALTERNATIVES - 1.5 ACRE CLUSTER PLAN

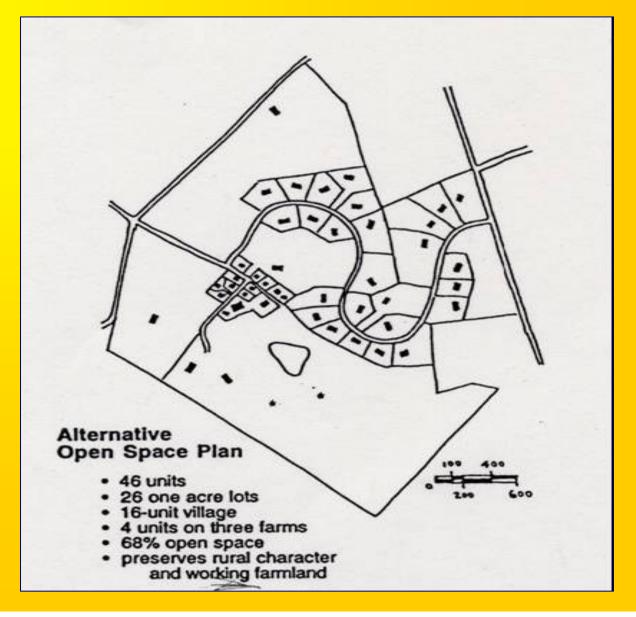








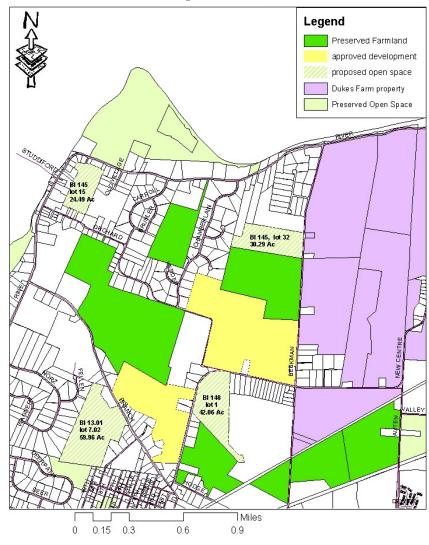
Conventional vs. Cluster Development



4. Non-Contiguous Clustering

- Incorporated into Municipal Land Use Law in 1996
- One "Planned Development" Option
- Requires Coordination of Municipality, Landowners and Developer
- Sending Area Parcel(s) Permanently Preserved
- Receiving Area Parcel Developed At Higher than Normally Permitted Density
- Parcels may be Miles Apart
- Can Contribute to Center-Based Development
- May Require Density or Infrastructure Incentives

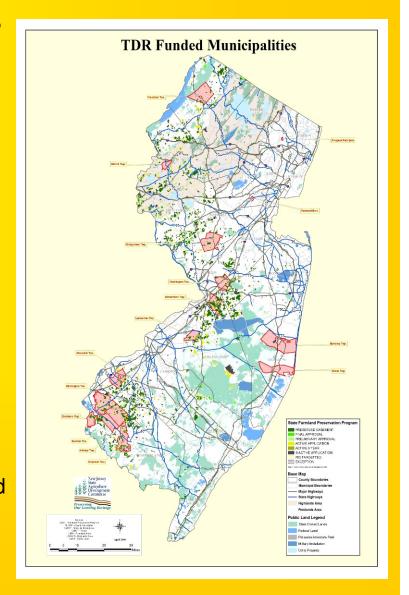
Flagtown South Branch Land Use Preservation August 2005

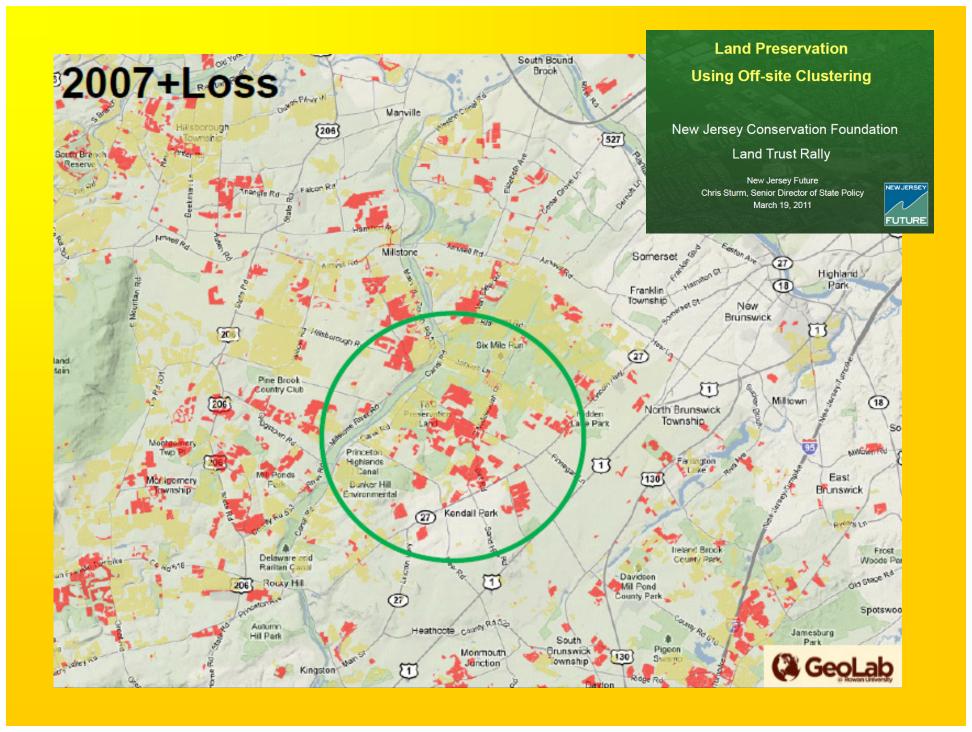


Hillsborough Township, Somerset County

5. Transfer of Development Rights

- ❖ A Municipal Planning and Preservation Tool / Realty Transfer Mechanism
- Used to Permanently Protect Agricultural, Historic and/or Environmental Resources while Accommodating Development in Well-Planned Receiving Areas
- ❖ Allows Landowners in Designated Sending Areas to Separate the Development Rights of Their Property from the Property Itself for Sale and Use in Receiving Areas
- Enables Developers who Purchase Development Credits to Build in Areas Deemed Appropriate for Growth at Densities Higher than Otherwise Permitted
- Protects Landowner Equity
- Can Provide Benefits to Landowners, Developers and Municipalities
- ❖ Relies on Private Transactions Between Landowners and Developers but Can Involve TDR Banks or Private Investors





If we could go back in time... what planning tools could have been used?

Large lot zoning

Clustering

Noncontiguous clustering

Transfer of Development Rights (TDR)





Franklin Township, NJ. Google maps 2011

Large Lot Zoning

Lot sizes are increased to reduce the amount of development on a parcel





Franklin Township, NJ., Google maps 2011. (Parcel boundaries are fictitious)

Contiguous Clustering

Development is concentrated on a portion of the site, and the rest is preserved as open space





Franklin Township, NJ., Google maps 2011. (Parcel boundaries are fictitious)

Noncontiguous Clustering

Municipality designates a zone or multiple parcels that a developer may use to create a single cluster. Sending parcels are permanently preserved.



Noncontiguous Cluster - Opportunities

- ✓ Affordable Preserves land or historic sites with private funds
- ✓ Effective More control than contiguous clustering
- ✓ Simple Relatively easy and inexpensive to administer
- ✓ Fair Provides landowners with another option to use development potential



✓ Promising – given Pinelands experience

Noncontiguous Cluster - Limitations

- ✓ Voluntary and market-driven Town may have to serve as a broker for landowners and developer
- ✓ More complex for developer may require incentives
- ✓ Accelerated, higher density growth may generate opposition
- ✓ Hard to get water/wastewater approvals if sewer not in place
- ✓ Legal constraints

Noncontiguous Clustering

A developer could cluster units from one parcel onto another parcel, which would be developed more intensely.





Franklin Township, NJ., Google maps 2011. (Parcel boundaries are fictitious)

Noncontiguous Clustering

A developer could cluster units from multiple parcels onto one parcel, which is developed more intensely.





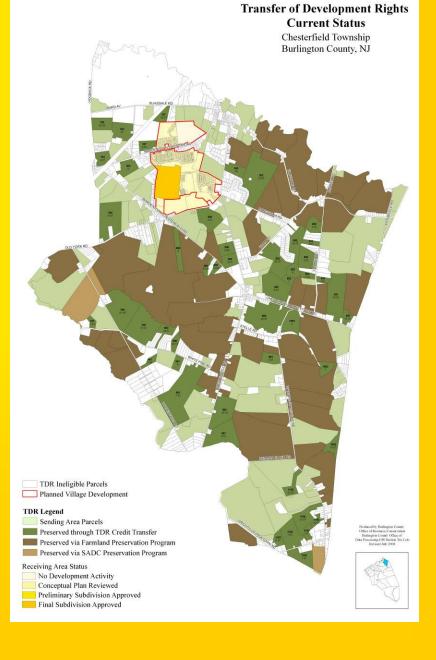
Franklin Township, NJ., Google maps 2011. (Parcel boundaries are fictitious)



Transfer of Development Rights

Larger scale. Developers build more densely in the designated growth area, if they purchase development rights from landowners in the preservation area



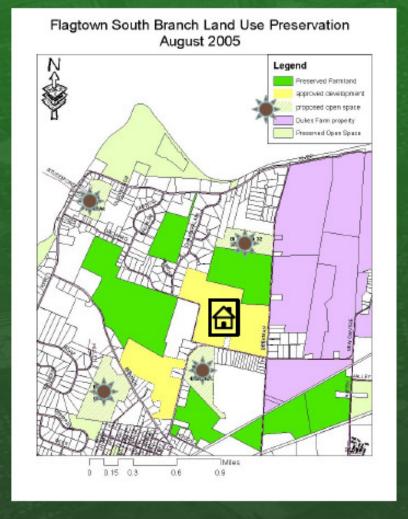


Hillsborough example

Noncontiguous clustering used on five parcels for Hillsborough Chase project

 105 homes under construction by Toll Brothers

157 acres on four parcels were permanently preserved and given to the township. Three are leased for farming and one is managed as bird habitat.





Proposed MLUL Amendments to Make Noncontiguous Clustering Easier and More Effective

- ✓ Allow clustering of both residential and/or non-residential
- ✓ Simplify municipal planning obligations by not requiring creation of a "Planned Development"
- Allow for consolidation of sending and receiving lots for tax and stewardship purposes, as in the Pinelands
- Clearly authorize use for historic preservation

NEW JERSEY

- ✓ Expand powers while distinguishing clearly from TDR.
 - ✓ Allow towns to designate "receiving" areas for growth and "sending" areas for preservation
 - ✓ Do not allow towns to access TDR tools allocation of development credits with the intent to create a market for their sale or access to the TDR Bank

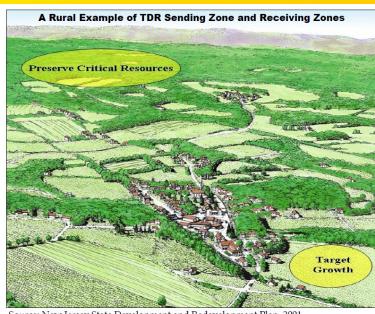
Realizing the Promise:

Transfer of Development Rights in New Jersey

A Report of the New Jersey TDR Statewide Policy Task Force



August 2010



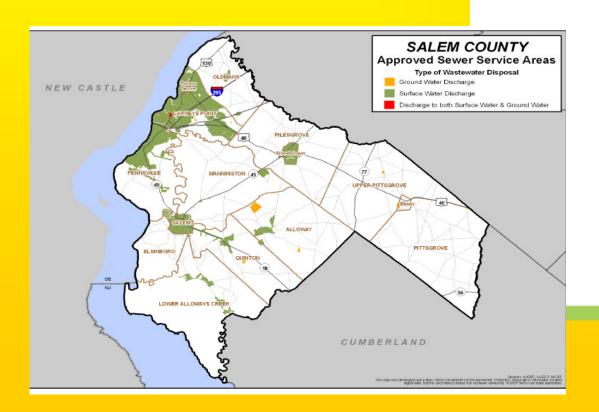
Source: New Jersey State Development and Redevelopment Plan, 2001

Development Transfer Alternatives—Principle Elements

Element	Non-Contiguous Cluster	TDR			
Element	(recommended)	Voluntary1(recommended)	Mandatory (existing)		
Real Estate Market Analysis (REMA)	No REMA ²	Basic REMA "Economic Feasibility Analysis"	Full REMA		
Severable Credits or Ownership	Easement or Fee Ownership	Severable Credits	Severable Credits		
Credit Allocation	Local Option ³	Required	Required		
Transfer Ratio	Local Option	Yes	Yes		
Designated Receiving and Sending Area(s)	Local Option	Yes	Yes		
Sewage Treatment Required	Local Option	Yes	Yes		
Receiving Area sized to utilize Sending Area Credits	Local Option	Yes – at least 75%	Yes - 100%		
Maximum Lot Size in Receiving Area	Local Option ⁴	Yes	Yes		
Provisions for Regulatory Predictability	No	To Be Determined	Yes		
State Role in Transfer	State Cooperation ⁵	State Partnership / Endorsement State Partnership / Endorsement			
Performance / Sunset Requirements	No	No	Yes		



Salem County Population Projected Rates 2007-2030



Salem County	7.3%
Alloway township	24.7%
Carneys Point township	5.4%
Elmer borough	-3.0%
Elsinboro township	-3.8%
Lower Alloways Creek township	11.4%
Mannington township	1.5%
Oldmans township	0.1%
Penns Grove borough	-4.5%
Pennsville township	-1.3%
Pilesgrove township	20.1%
Pittsgrove township	18.3%
Quinton township	3.7%
Salem city	-3.5%
Upper Pittsgrove township	17.9%
Woodstown borough	19.5%

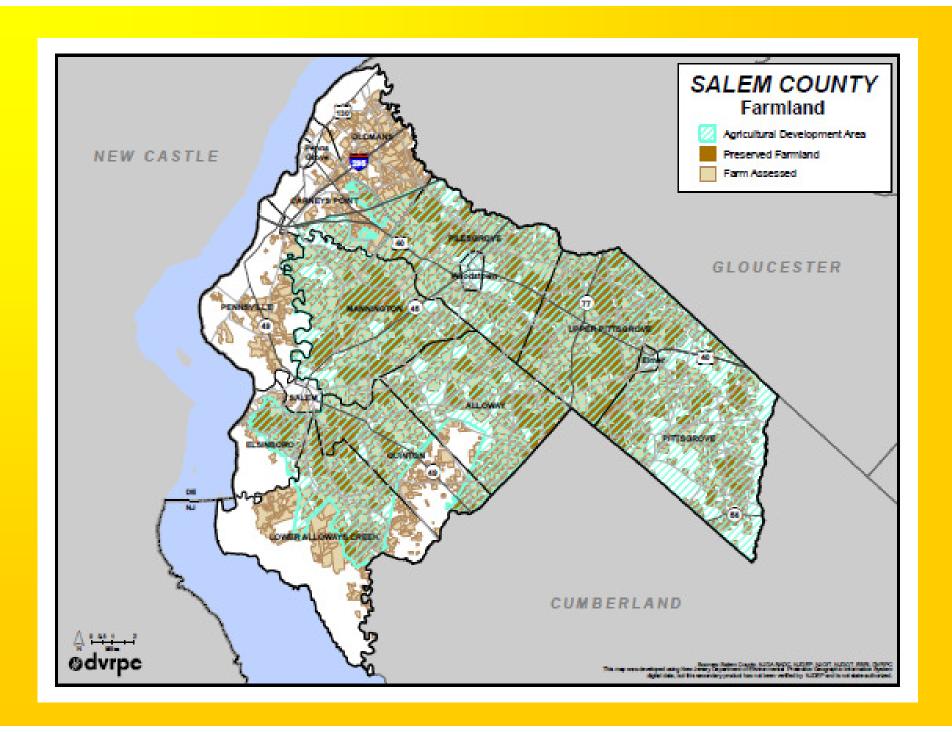
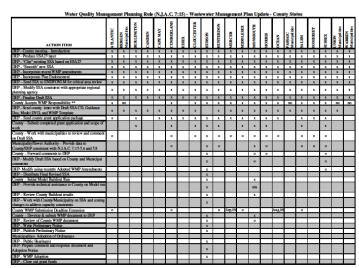


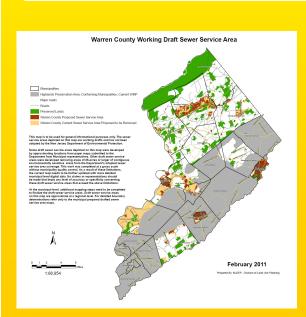
Figure 1: Gloucester-Salem Regional Alternative

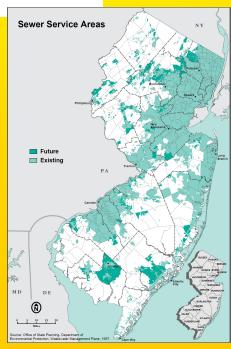
CHURCHILL

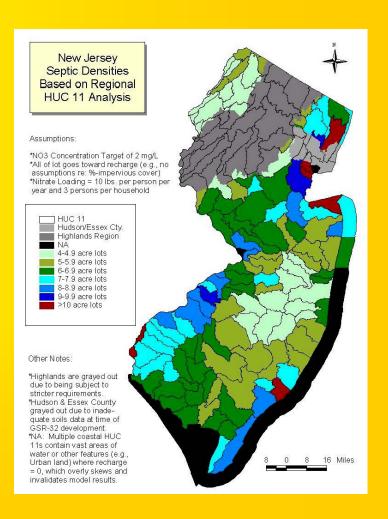
Figure 2 Regional Interceptor Systems Gloucester & Salem Counties

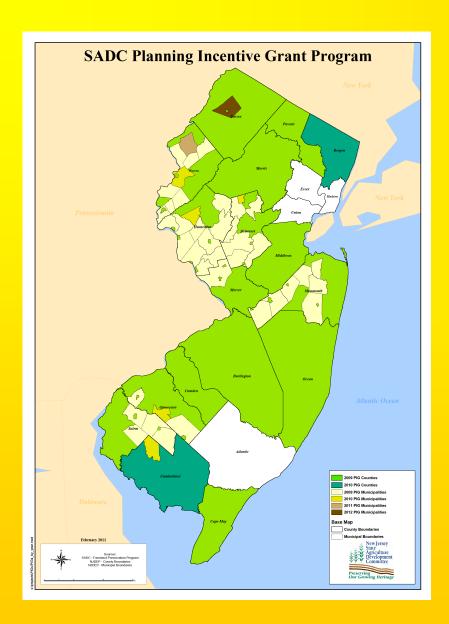
Water Quality Management Planning











2012 County and Municipal Planning Incentive Grant Application Summary

County / Municipality	# of Project Areas	# of Targeted Farms	Targeted Farms Acreage	Estimated Total Cost in Millions	Project Area Acreage	1-Year Acreage Goal	5-Year Acreage Goal	10-Year Acreage Goal	Dedicated Tax \$0.0_/\$100	Annual Tax Rovenue in Millions	Annual Tax for Farmland Preservation in Millions
Bergen	8	40	525	\$67.227	10,887	30	150	300	1.0	\$19.000	No Sat Amount
Burlington	4	201	24,896	\$100,000	111,781	1,000	5,000	10,000	4.0	\$20,000	No Sat Amount
Camdon	5	57	3,469	\$30.843	15,071	762	2,369	3,470	2.0	\$7.600	No Sat Amount
Cape May	6	198	13,172	\$357.258	16,065	299	1,097	1,976	1.0	\$4.400	No Sat Amount
Cumberland	16	476	19,392	\$75.334	58,283	1,050	5,250	10,500	1.0	\$0.970	No Sat Amount
Upper Deerfield	1	57	3,958	\$17.838	9,233	396	1,979	3,958	0.0	\$0.000	\$0.000
Gloucester	11	30	2,194	\$30,894	112,929	1,000	5,000	10,000	4.0	\$11,000	\$5.000
Elk	2	30	1,005	\$11.050	3,520	75	377	754	1.0	\$0.038	\$0.038
Franklin	5	135	5,272	\$31.413	10,106	598	1,799	3,290	1.0	\$0.076	No Sat Amount
Woolwich	3	74	4,071	\$81.846	5,139	415	2,070	4,134	5.0	\$0.290	Up to \$0.280
Hunterdon	7	192	12,448	\$158.000	178,126	1,500	7,500	15,000	3.0	\$7.000	\$2.000
Alexandria	4	35	1,113	\$8.902	16,657	150	750	1,500	4.0	\$0.314	No Sat Amount
Dolawaro	2	22	1,699	\$21.945	23,707	350	2,500	5,000	6.0	\$0.540	No Sat Amount
East Arrivoll	1	20	1,720	\$22.360	13,523	170	699	1,720	4.0	\$0.315	\$0.315
Franklin	1	18	1,494	\$21,800	4,246	30	750	1,494	5.0	\$0.275	\$0.200
Holland	4	33	2,599	\$25.987	11,335	250	1,250	2,500	2.0	\$0.079	\$0.079
Kingwood	1	28	2,021	\$20,206	12,645	175	922	1,845	3.0	\$0.182	No Sat Amount
Raritan	4	23	1,554	\$31.079	6,111	100	300	6000	1.5	\$0.602	No Sat Amount
Readington	1	39	2,313	\$41.634	15,759	100	600	1,100	2.0	\$0.570	No Sat Amount
Towksbury	3	3	409	\$9,700	4,557	100	300	1,000	5.0	\$0.425	No Sat Amount
Union	3	22	701	\$8.199	3,791	70	325	6000	2.0	\$0.137	\$0.007
West Amwell	1	6	610	\$7.320	10,440	100	100	610	6.0	\$0.315	No Set Amount
Morcor	7	30	2,806	\$54.237	14,743	100	500	1,000	3.0	\$9.500	No Set Amount
Hopowall	1	- 11	958	\$28.734	10,761	96	383	479	2.0	\$1.345	No Set Amount
Middlesex	5	129	5,108	\$193.665	20,633	225	1,125	2,250	2.0	\$31,000	No Set Amount
Monmouth	6	136	13,283	\$432.912	60,598	1,200	5,000	8,000	1.5	\$17.900	No Sat Amount
Colts Nack	1	6	262	\$13.254	9,321	53	83	302	2.5	\$0.778	No Sat Amount
Holmdal	1	16	587	\$27.182	2,568	10	70	338	2.5	1144	No Set Amount
Howali	3	12	633	\$10,900	24,234	127	370	453	2.0	\$1.396	\$0.700
Manalapan	1	32	1,447	\$29.487	9,223	145	724	1,447	2.0	\$1.132	No Sat Amount
Marlboro	3	17	588	\$36,700	19,690	45	312	588	2.0	\$0.625	No Sat Amount
Milistone	4	62	4,038	\$121.100	12,359	716	1,116	1,716	6.0	\$0.830	No Sat Amount
Upper Freehold	1	207	10,390	\$207.800	27,358	550	1,000	1,500	4.0	\$0.328	No Set Amount
Morris	3	79	6,025	\$177.930	169,342	610	2,974	6,025	2.0	\$23.000	\$5.250
Ocean	7	151	3,256	\$84.287	21,975	200	901	1,623	1.2	\$10,000	No Sat Amount

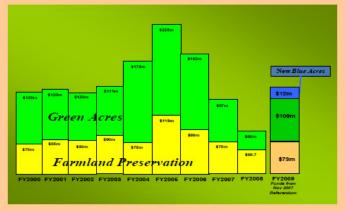
County/ Municipality	# of Project Areas	# of Targeted Farms	Targeted Farms Acreage	Estimated Total Cost in Millions	Project Area Acreage	1- Year Acreage Goal	5-Year Acreage Goal	10-Year Acreage Goal	Dedicated Tax \$0.0_/\$100	Annual Tax Rovenue in Millions	Annual Tax for Farmland Preservation in Millions
Passaio	1	5	116	\$4.646	6,415	100	500	1,000	1.0	\$5.200	\$0.780
Salem	3	164	5,247	\$50.848	80,125	2,600	13,000	26,000	2.0	\$1.157	\$1.157
Alloway	1	7	385	\$3.976	5,055	200	400	600	2.0	\$0.058	\$0.020
Pliesgrove	3	41	4,450	\$25,000	7,297	214	992	1,808	3.0	\$0.145	\$0.145
Pittsgrove	2	89	3,199	\$22,089	7,200	458	1,312	2,399	3.0	\$0.178	No Set Amount
Upper Pittsgrove	4	20	1,000	\$7.500	1,000	200	500	1,000	2.0	\$0.070	\$0.070
Somerset	12	400	15,764	\$250.214	87,623	1,000	4,000	5,000	3.0	\$19.140	\$1.400
Bedminster	1	123	5,913	\$177.410	10,111	500	2,706	2,706	2.0	\$0.522	No Sat Amount
Bernards	1	25	538	\$40,323	3,798	165	165	200	4.0	\$3.030	No Sat Amount
Branchburg	1	23	737	\$40.535	1,873	154	266	737	5.0	\$1.500	No Sat Amount
Franklin	2	25	1,100	\$34.379	17,422	130	650	1,100	5.0	\$4.000	No Sat Amount
Hillsborough	3	36	1,686	\$33.761	3,860	100	500	1,000	4.1	\$1.478	\$0.300
Montgomery	1	22	1,081	\$32,432	20,646	116	385	580	4.0	\$1.500	No Sat Amount
Peapack & Gladstone	2	9	271	\$9,499	1,932	20	80	160	3.0	\$0.248	\$0.124
Sussex	10	799	39,449	\$220.189	176,195	2,648	13,240	26,480	0.65	\$1,200	\$1.000
Frankford	4	102	4,438	\$27.745	10,142	73	358	700	3.0	\$0.080	\$0.080
Warren	7	382	29,347	\$152.934	153,719	2,940	14,700	29,400	6.0	\$7.800	\$4.500
Blairstown	4	78	2,140	\$14.977	12,307	180	900	1,700	3.5	\$0.320	\$0.320
Franklin	4	104	6,142	\$50.206	9,455	250	1,204	2,299	6.5	\$0.270	No Set Amount
Freylinghuysen	7	82	3,511	\$22.813	9,483	100	500	1,000	2.0	\$0.055	\$0.055
Greenwich	1	18	1,832	\$36,640	3,453	120	480	1,832	4.0	\$0.237	\$0.130
Harmony	3	107	4,283	\$25,700	12,414	220	1,000	1,800	5.0	\$0.247	\$0.247
Hope	3	33	2,044	\$9.198	5,384	100	500	1,000	2.0	\$0.063	\$0.063
Knowflon	2	62	3,477	\$28.001	13,355	100	500	1,000	2.0	\$0.051	\$0.051
Pohatoong	4	105	3,313	\$33,100	5,306	1,015	1,763	1,955	5.0	\$0.155	\$0.155
White	4	112	4,661	\$23,416	13,599	150	700	1,300	2.0	\$0.126	No Set Amount
County Totals (17)	118	3,469	196,497	\$2,441	1,294,510	17,264	82,306	158,024		\$195.867	
Municipal Totals (44)	108	2,131	105,651	\$1,535	441,375	9,396	34,640	63,803		\$24.914	
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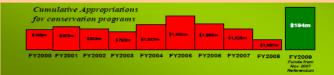




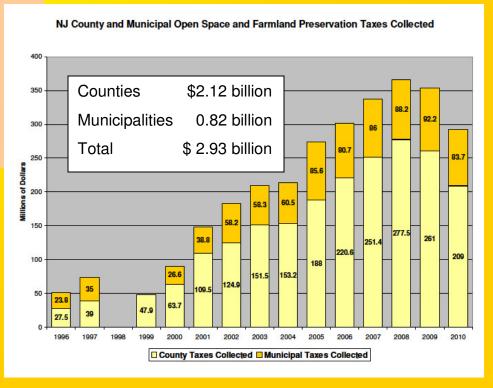
Garden State Preservation Trust

GSPT Land Conservation Appropriations





Future Funding



Trends to Watch For

- More State, Regional and County Planning
- Identification of Smart Growth Areas (Transit Villages, Centers, Clustered Development)
- More Creative Municipal and NJDEP Regulations
- More Housing Options (Affordable, Smaller, Age-Restricted, Rentals, Multi-Family)
- More Coordinated Preservation Projects (Open Space, Farmland, Recreation and Historic Preservation)
- Access to Fresh Produce (Community Markets, CSAs, Direct Sales)
- Renewable Energy Proposals on Preserved and Unpreserved Farms

For More Information or Questions:

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